

Technical Drawing



Lecture 4. Distances and angles

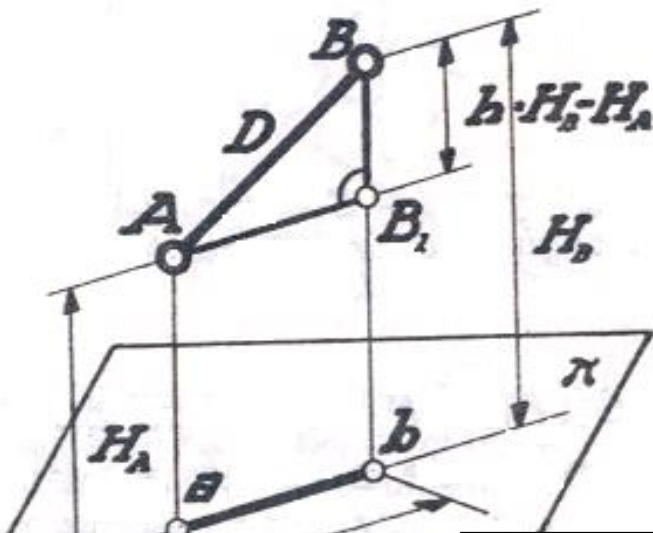
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Distance between two points I

- **Definition:** is the length of the segment that joins both points.
- **Aim:** find the **true** length of the segment that joins both points.



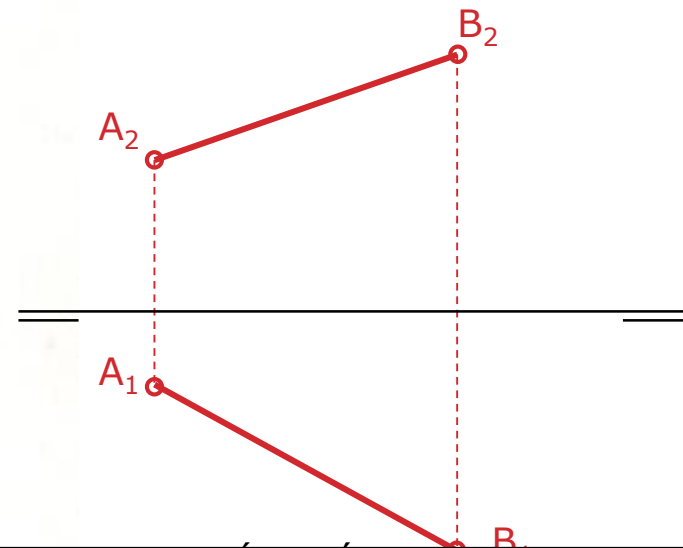
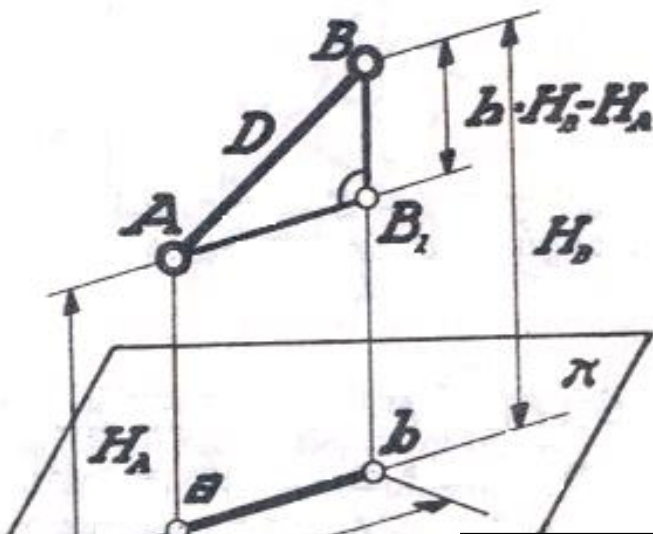
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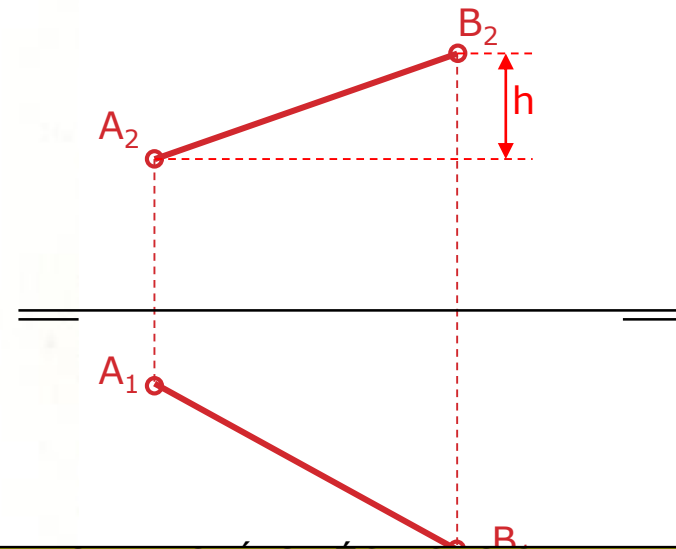
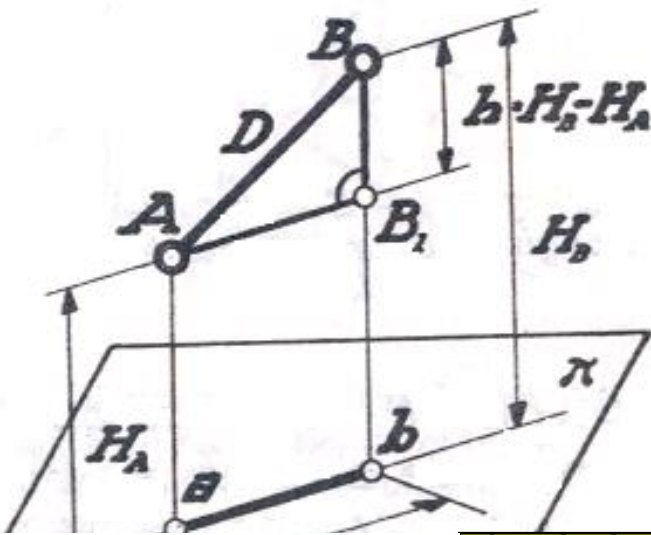
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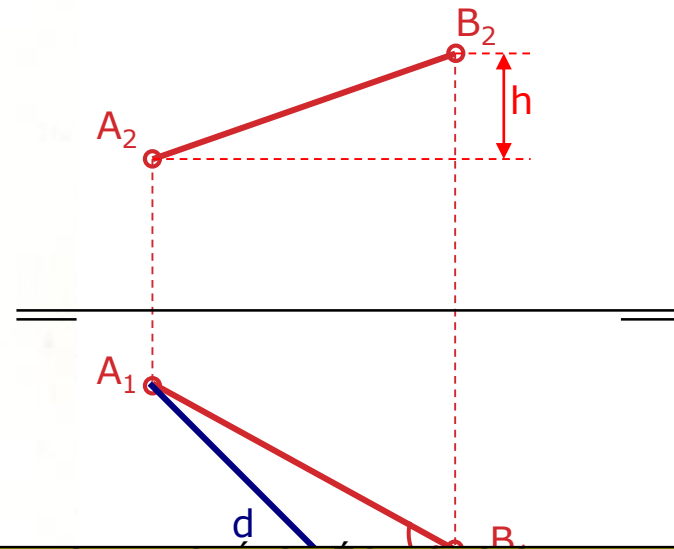
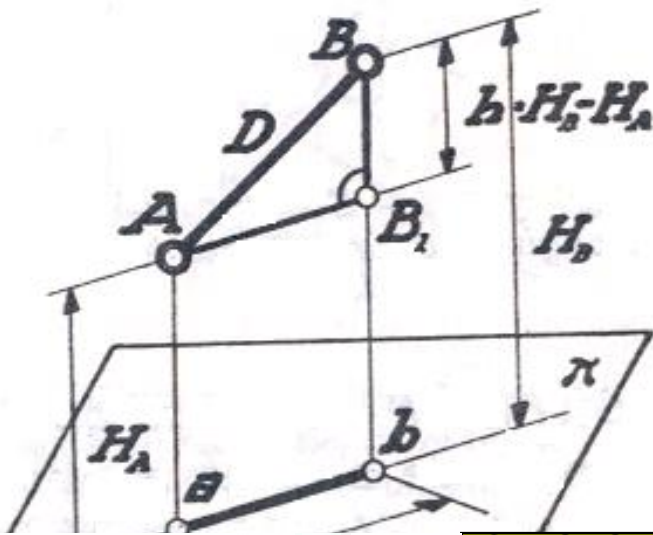
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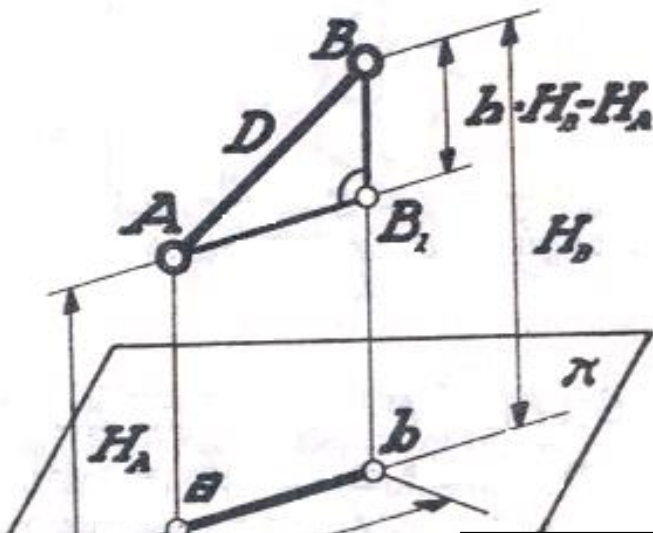
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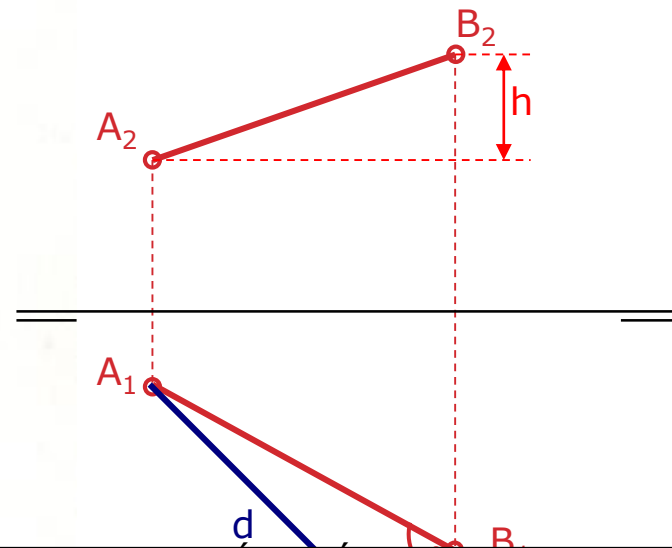
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Distance between two points I

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Difference in heights



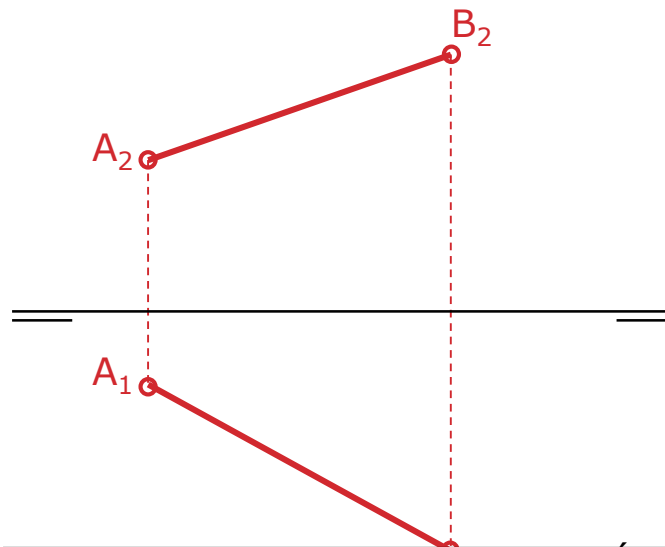
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Distance between two points II

Difference in depth



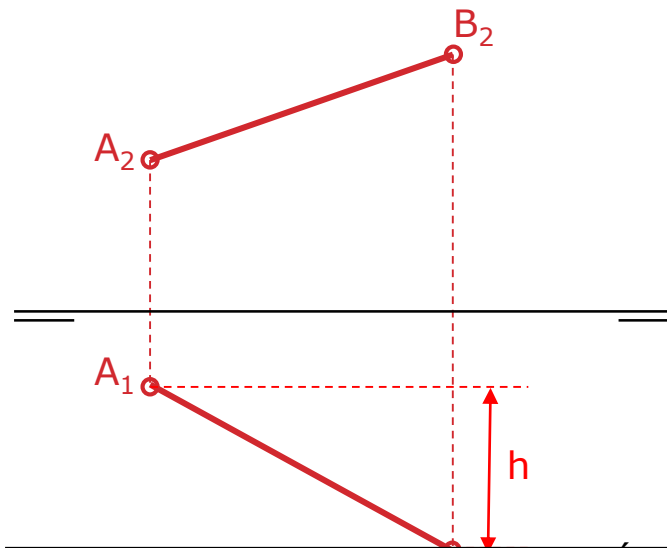
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Distance between two points II

Difference in depth



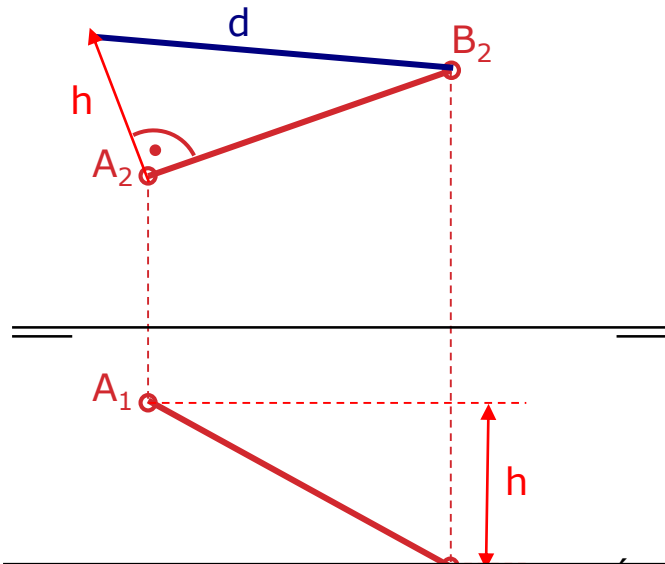
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Distance between two points II

Difference in depth



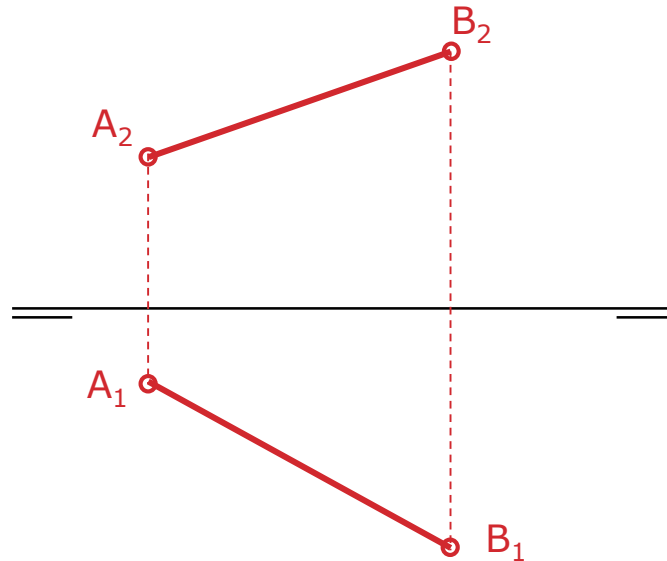
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Distance between two points III

Fold line method applied to a plane that contains segment AB



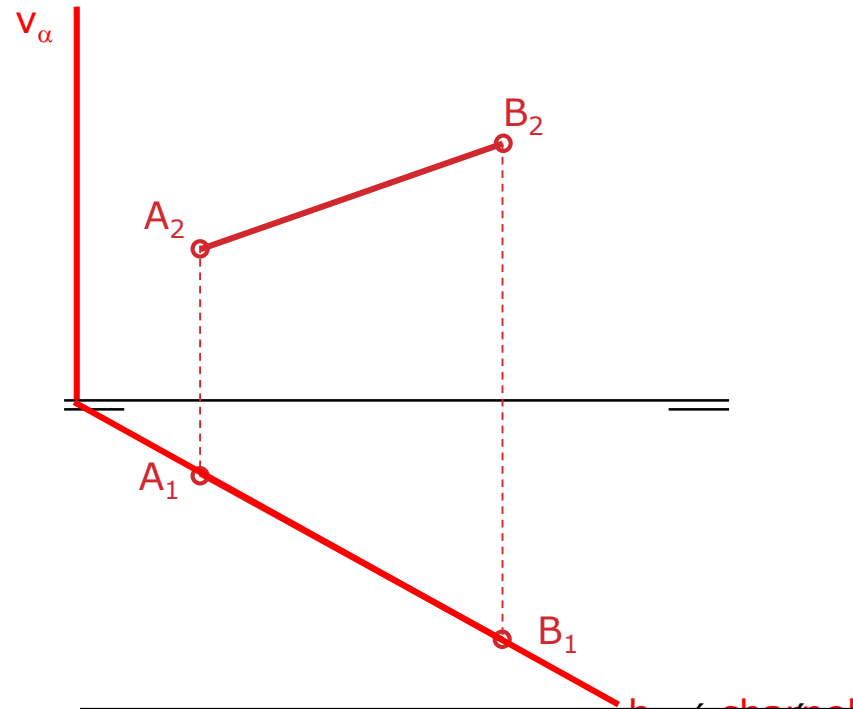
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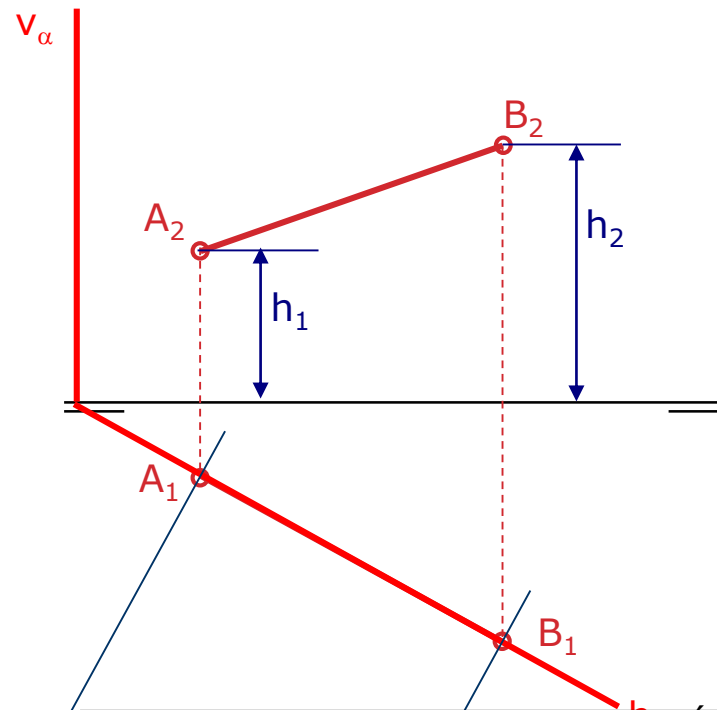
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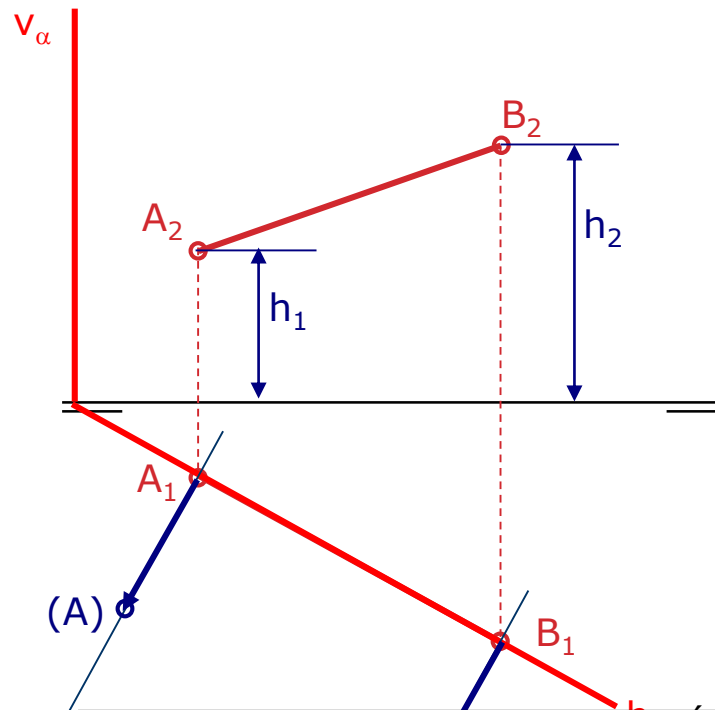
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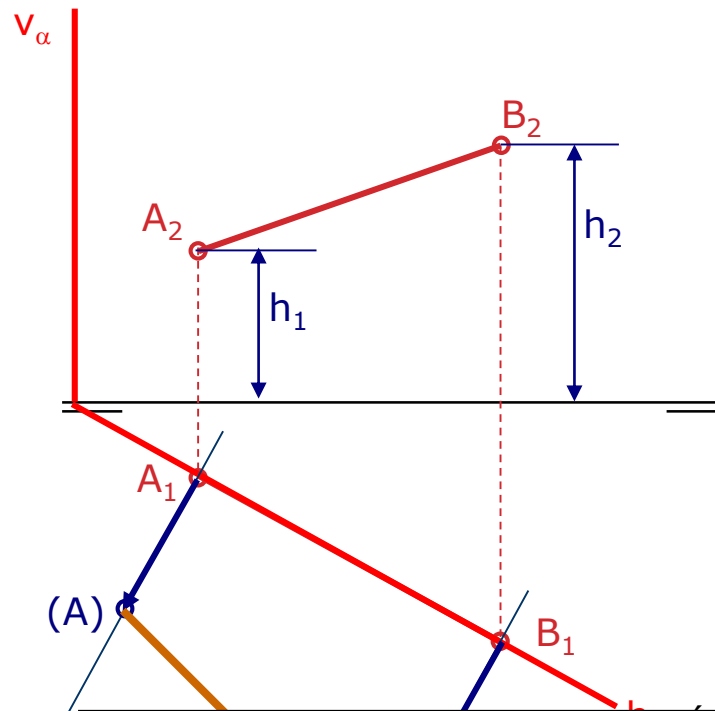
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Distance between entities I

- **Definition:** is the minimum distance between the points of both **elements**.
 - Distance between **a point and a line**.
 - Distance between **two parallel planes**.
 - Distance between **two parallel lines**.
 - Distance between **two crossing lines**.

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Distance between a point and a line

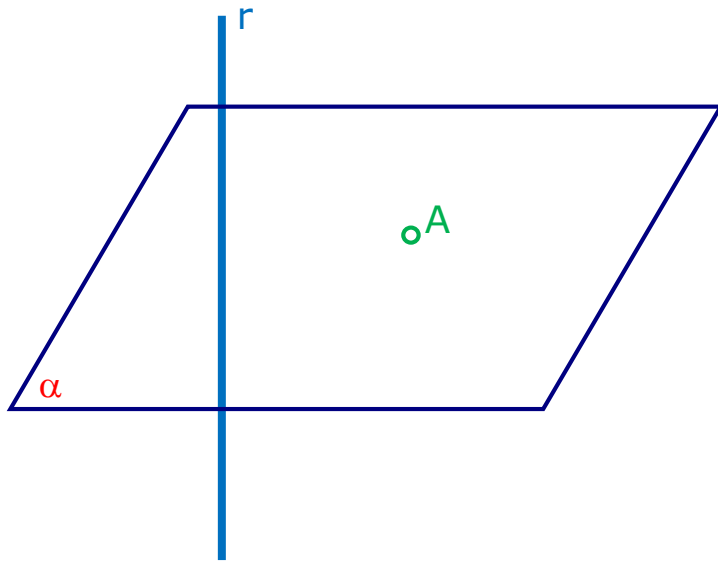


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Distance between a point and a line



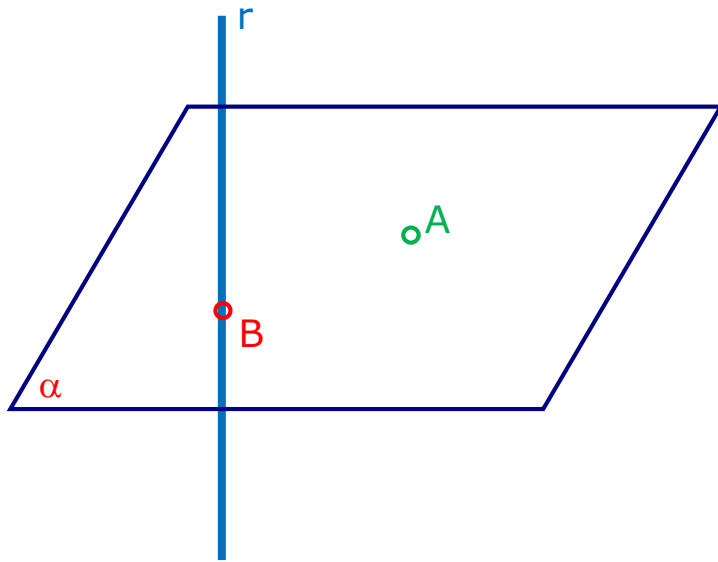
1. Plane $\alpha \perp$ to r and contains A

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Distance between a point and a line



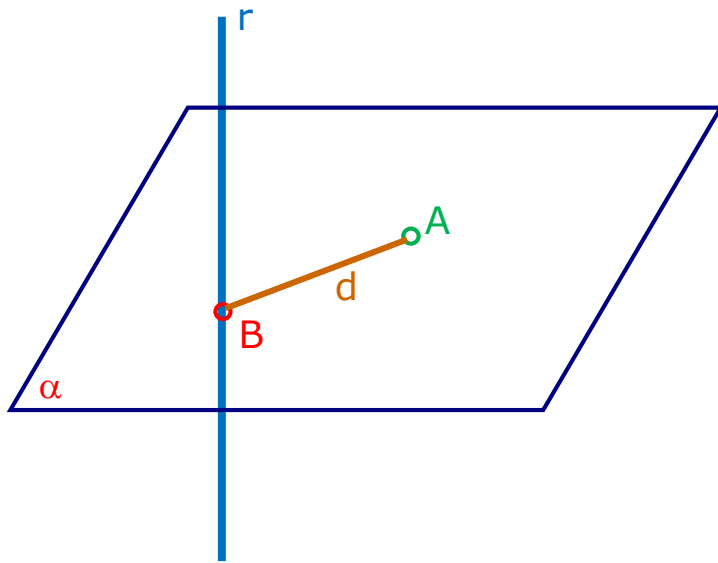
1. Plane $\alpha \perp$ to r and contains A
2. Intersection of line r with plane α

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Distance between a point and a line



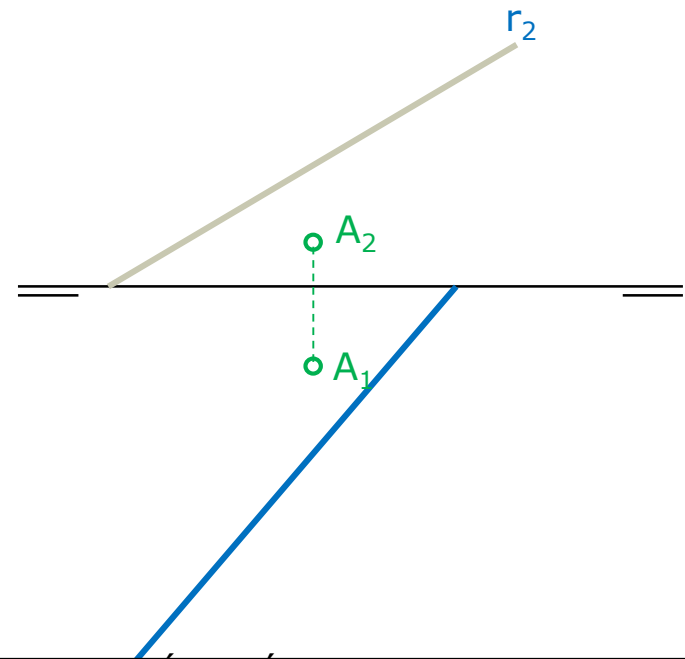
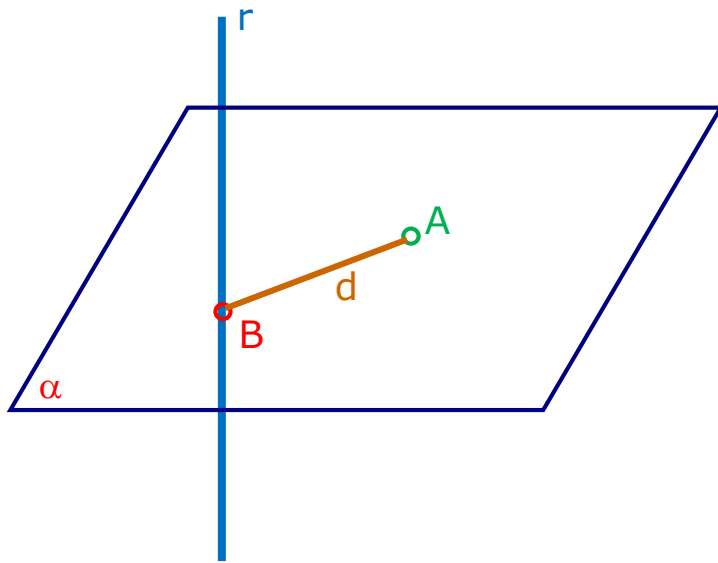
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Distance between a point and a line



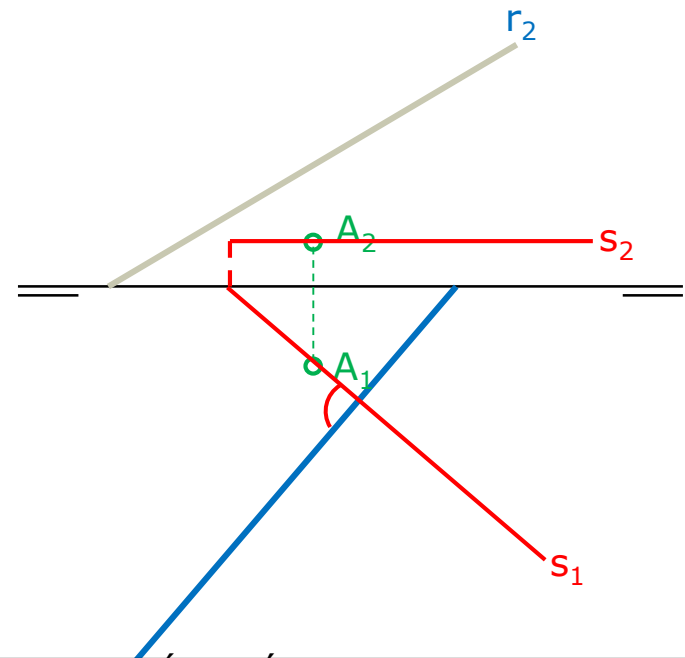
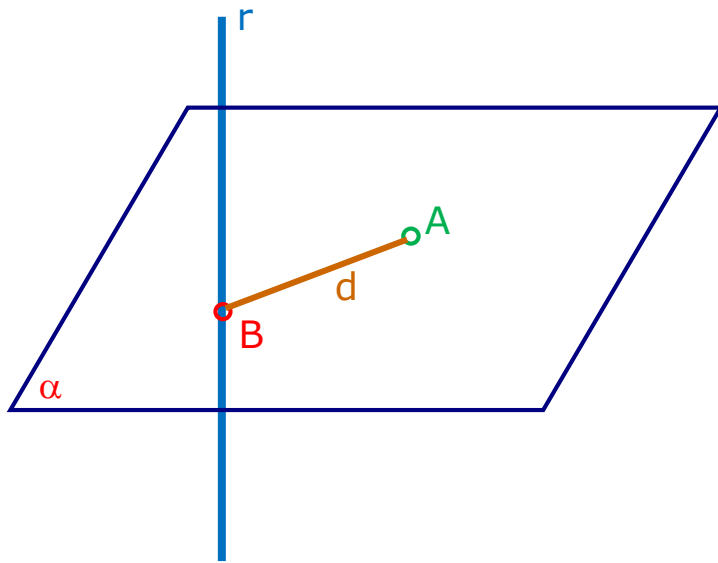
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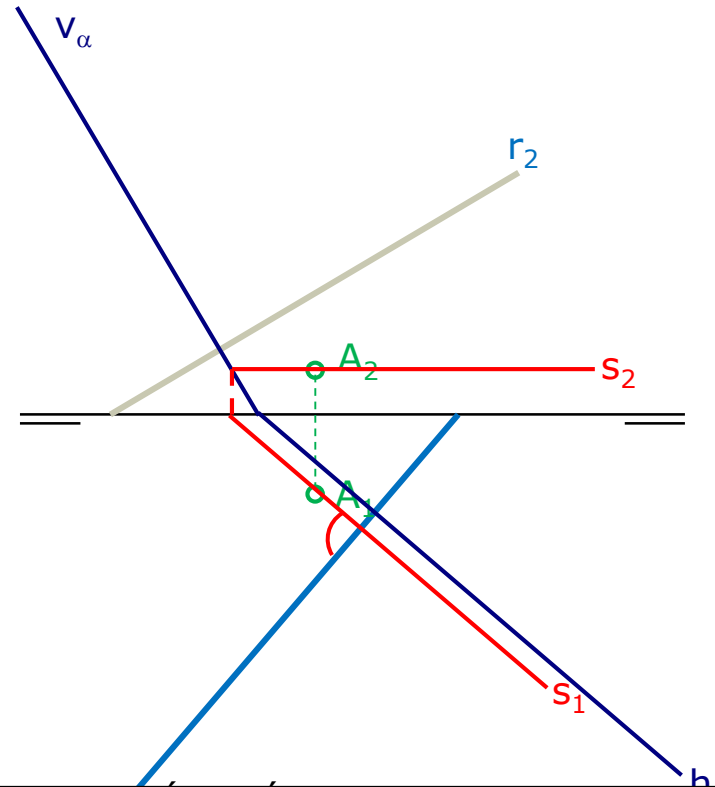
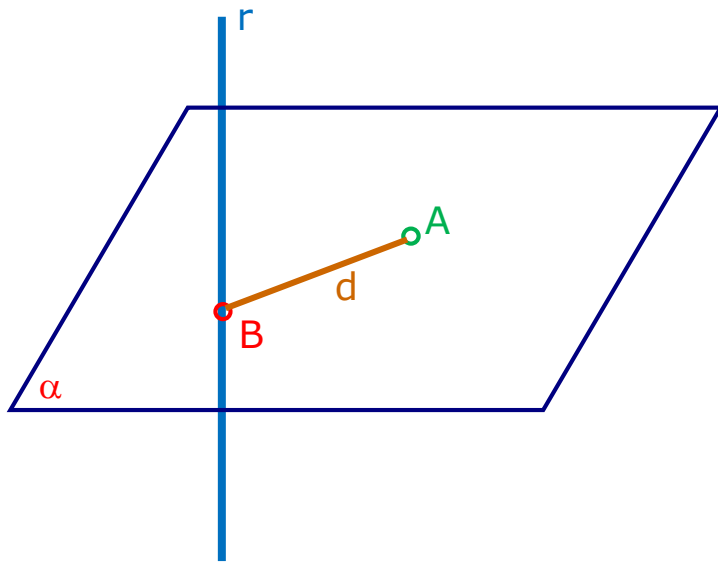
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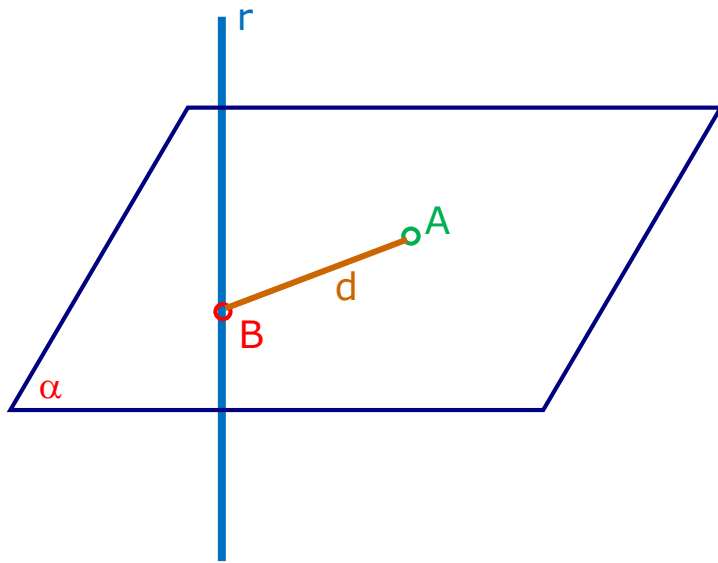
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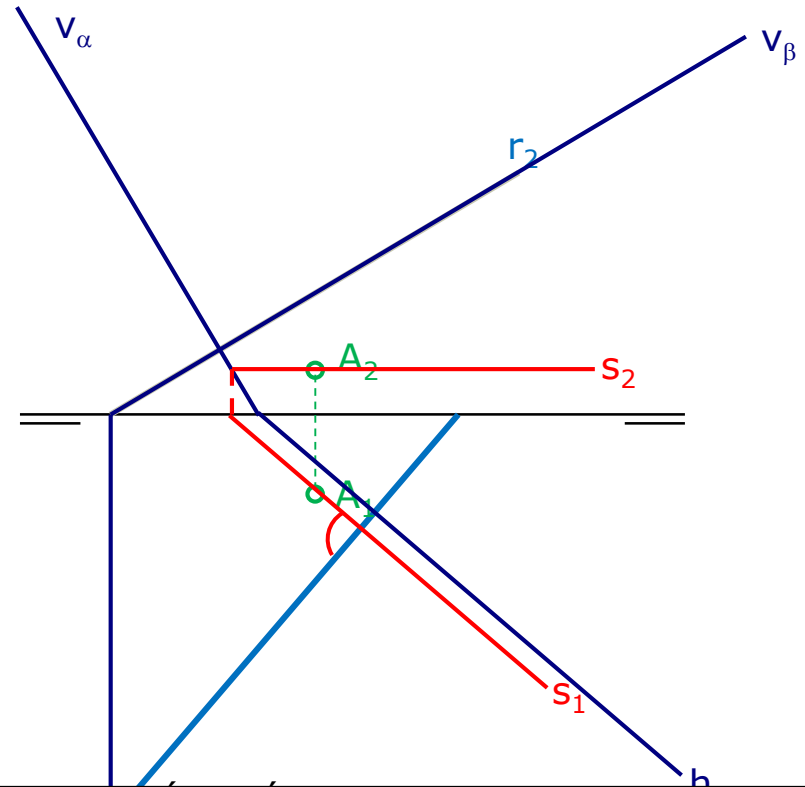
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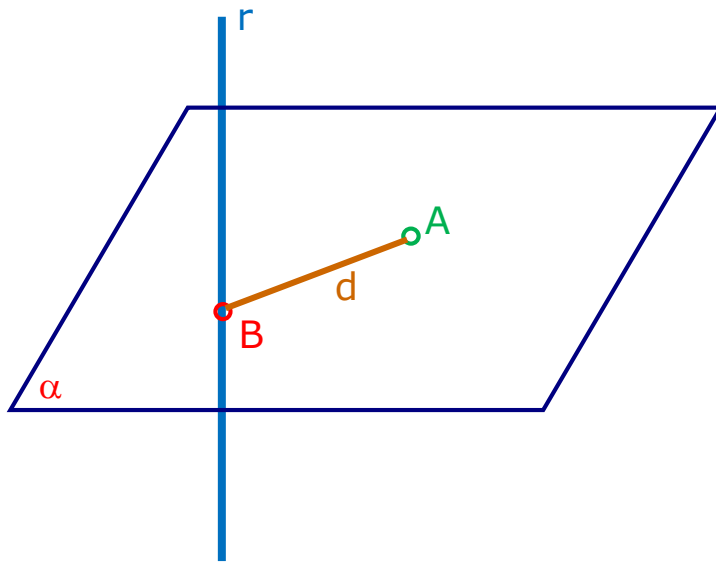
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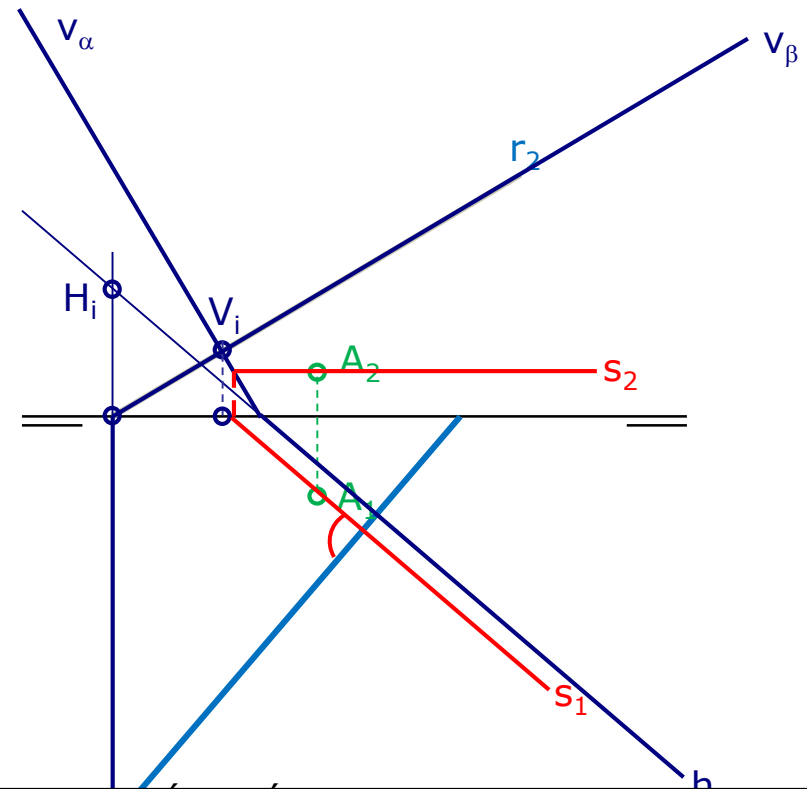
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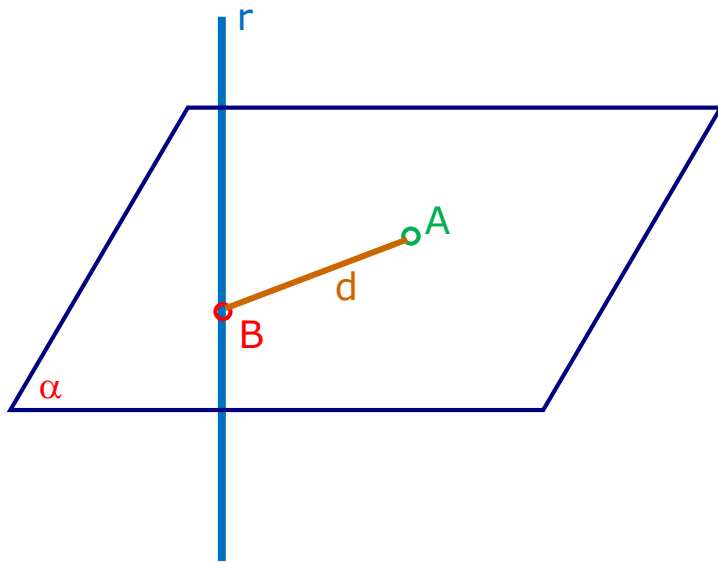
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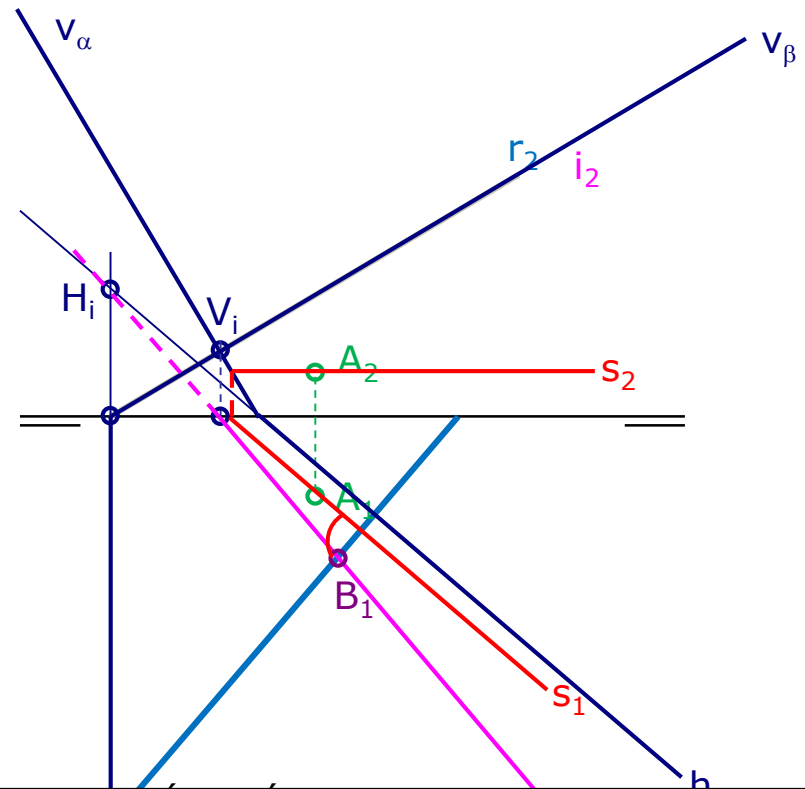
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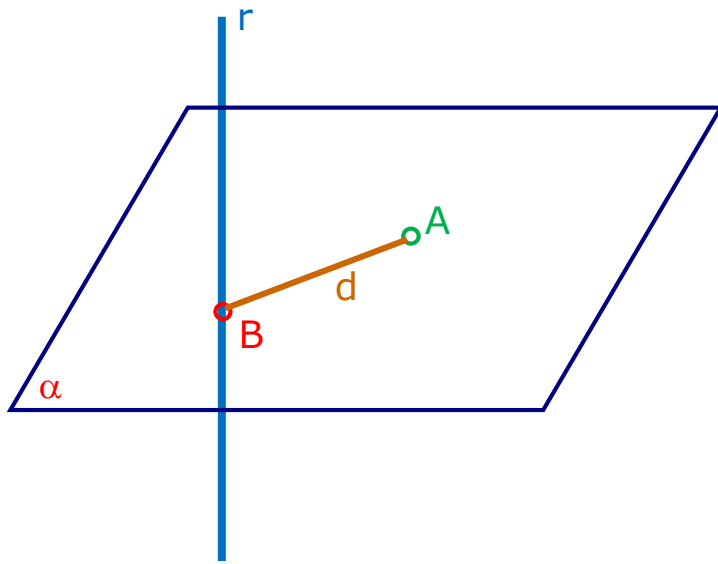


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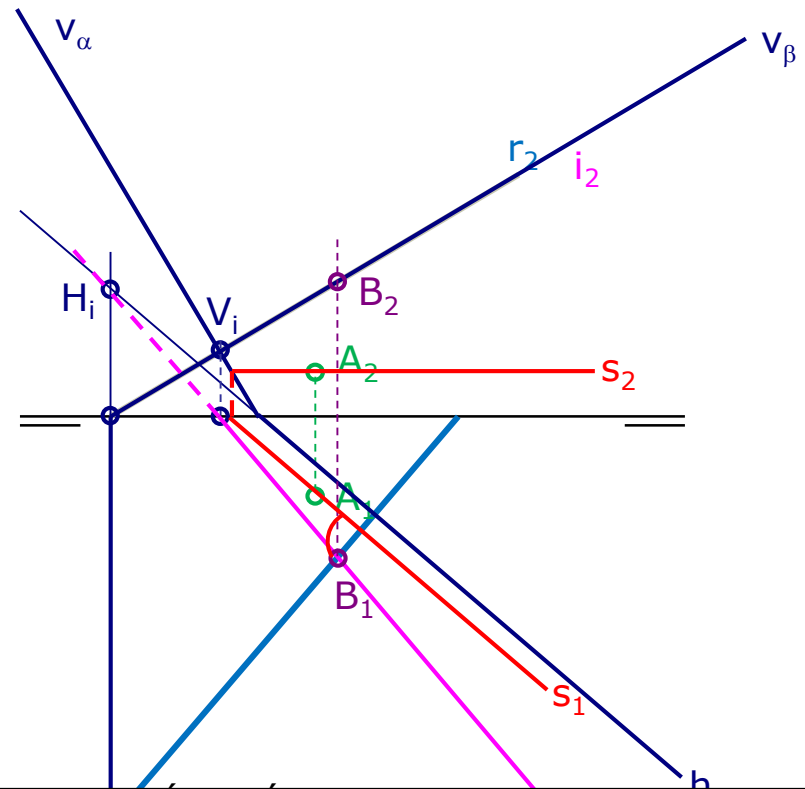
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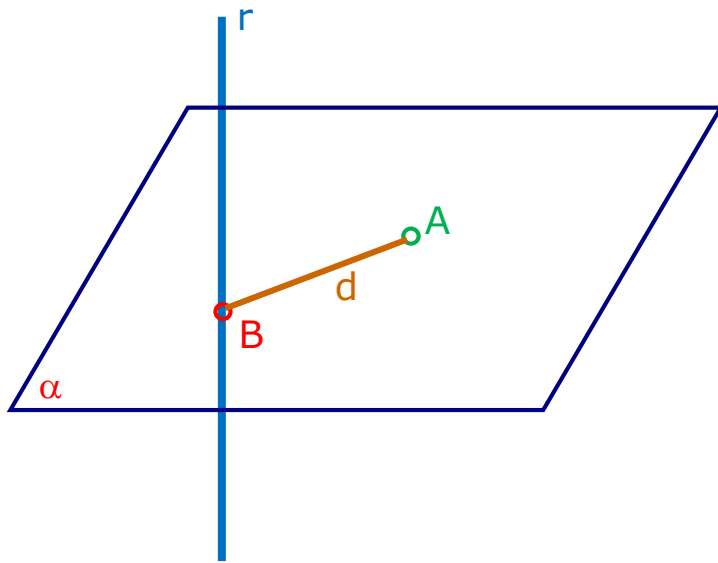


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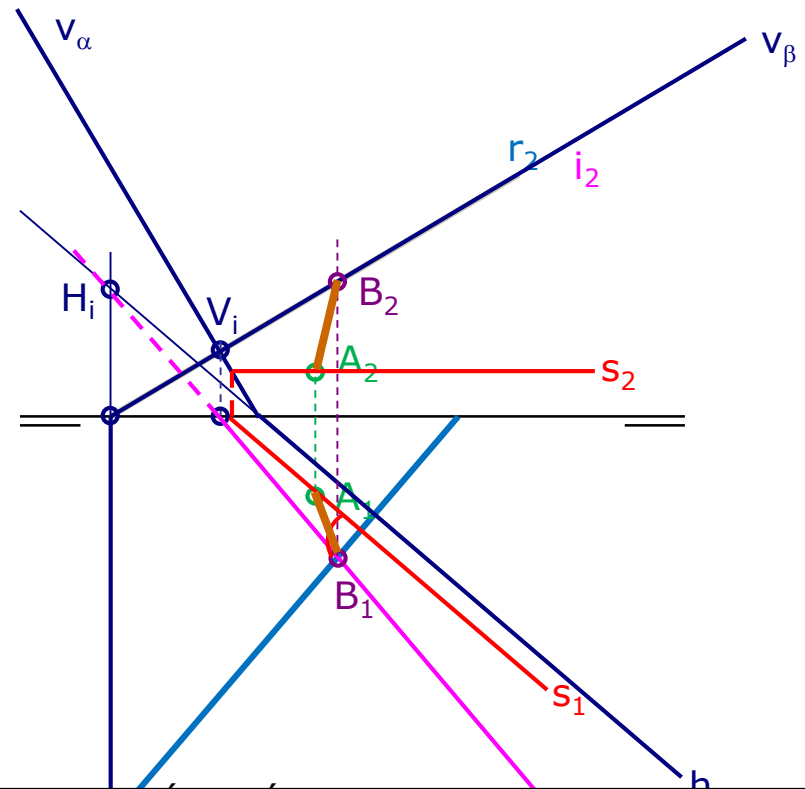
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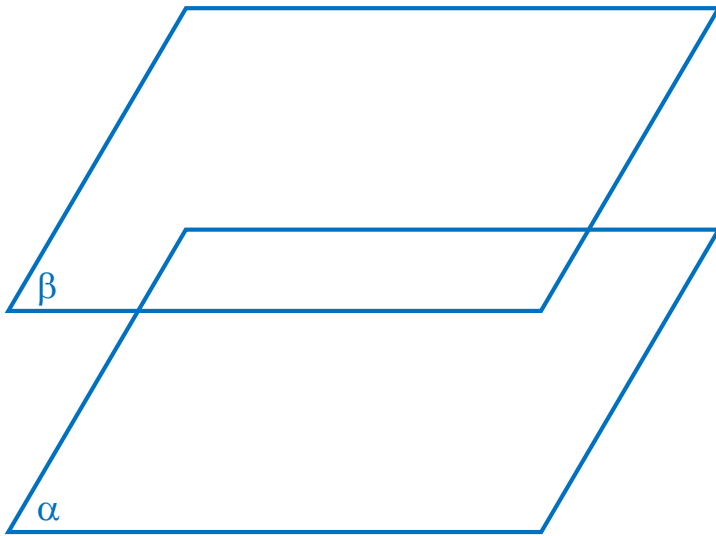
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Distance between two parallel planes

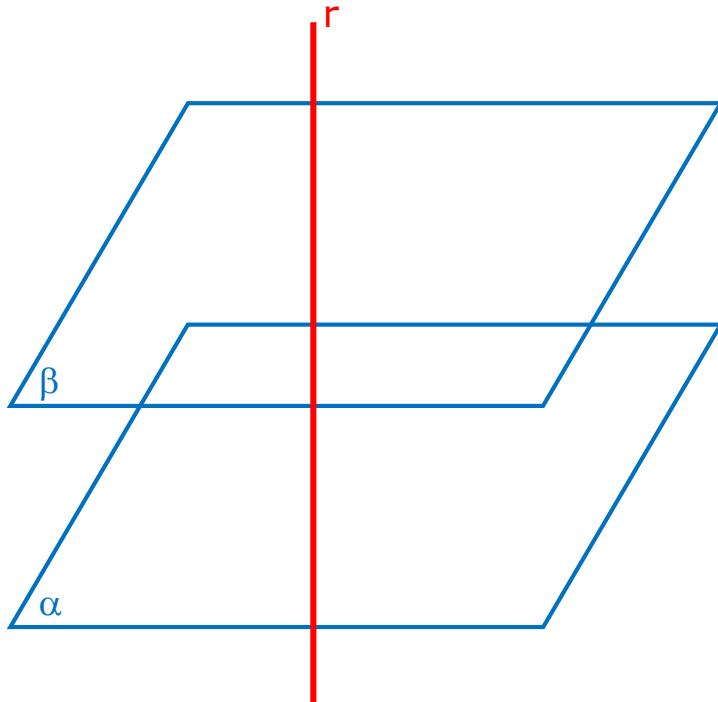


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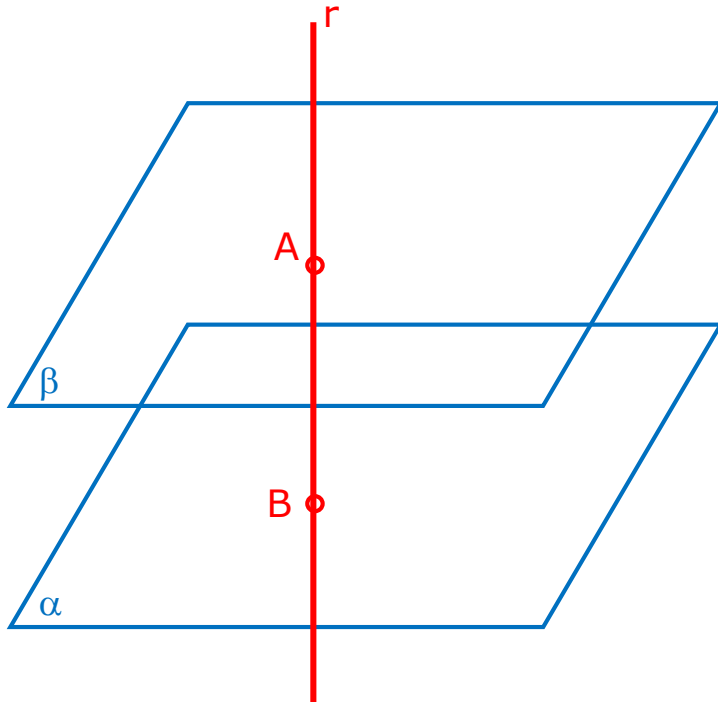


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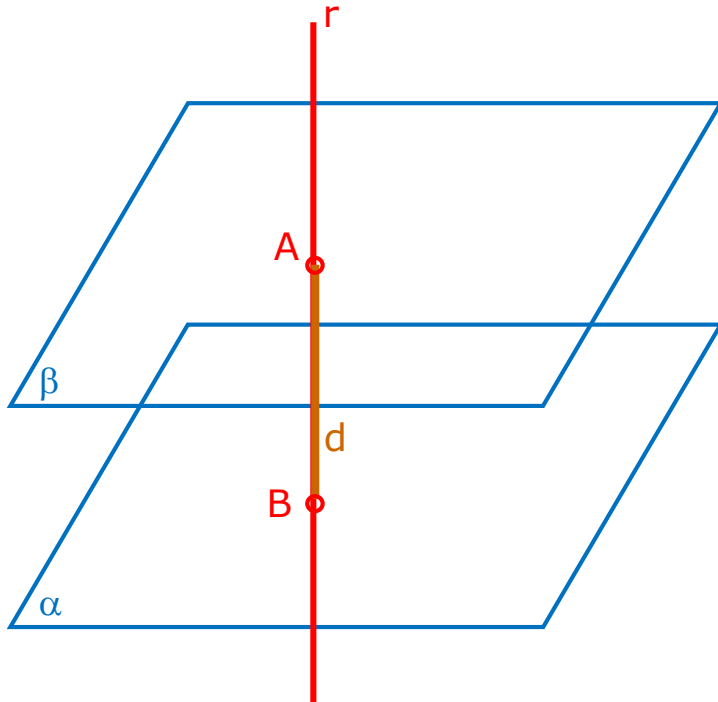


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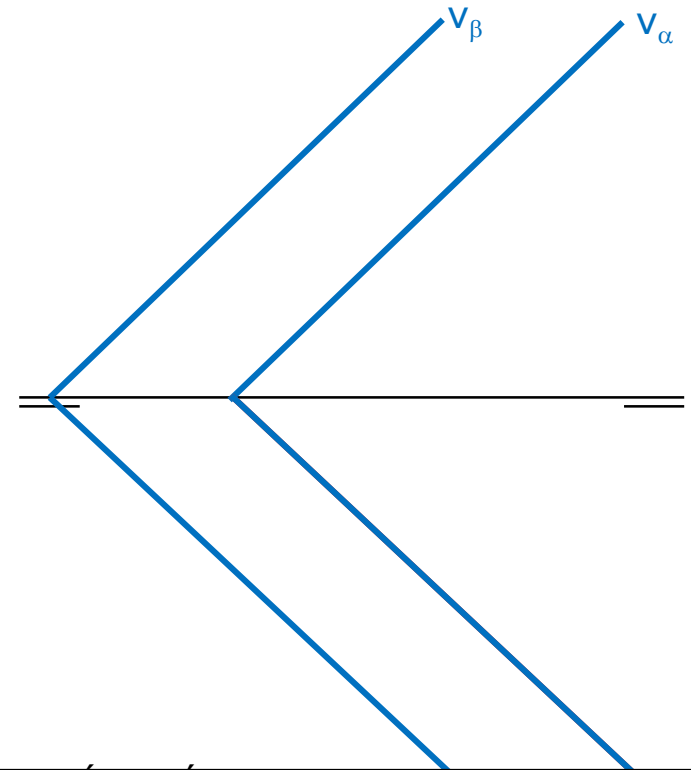
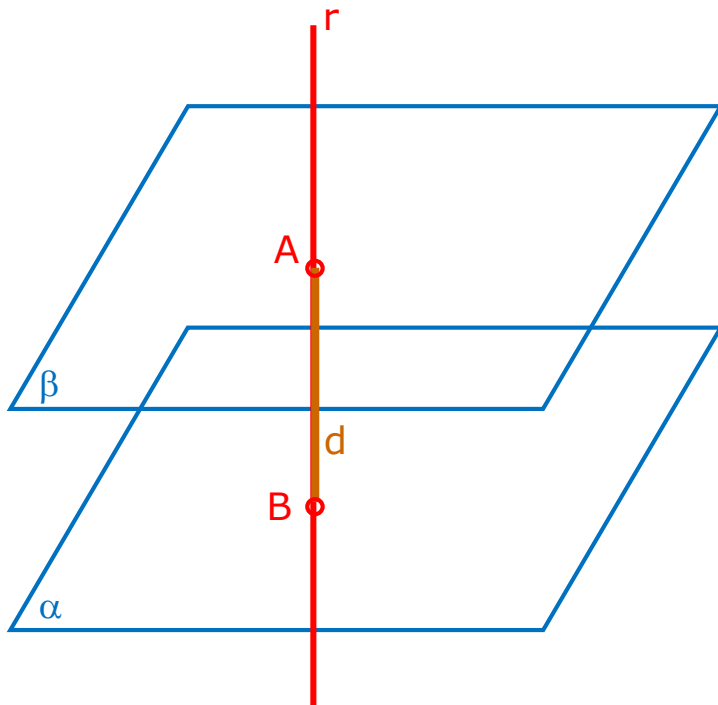


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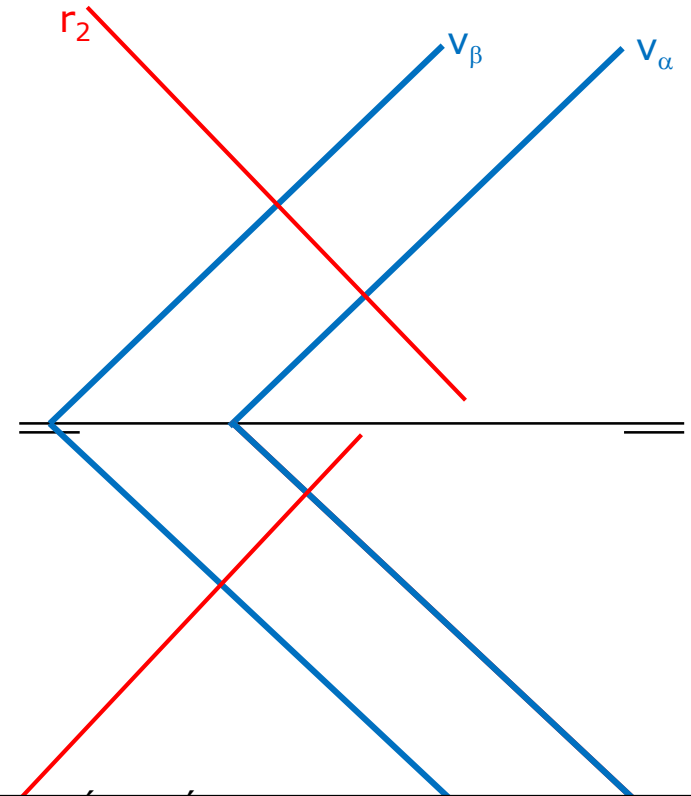
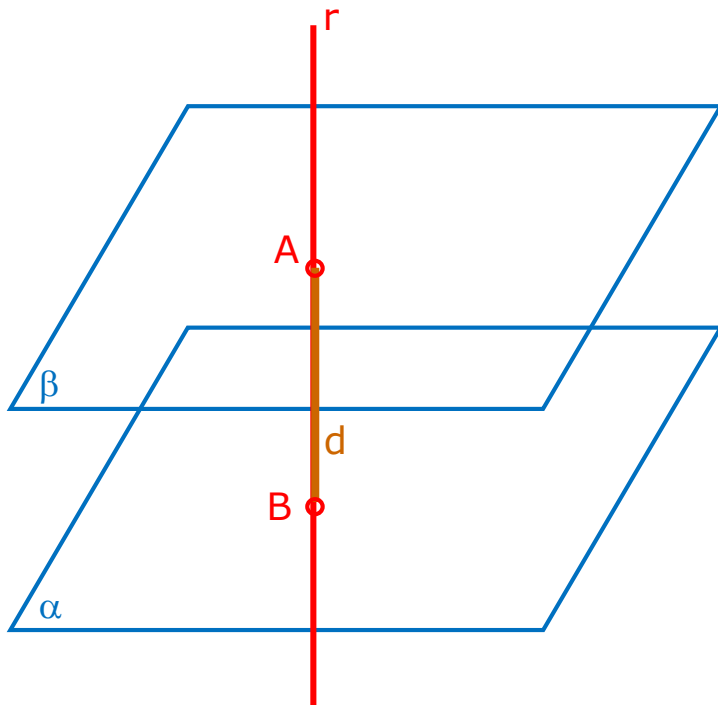


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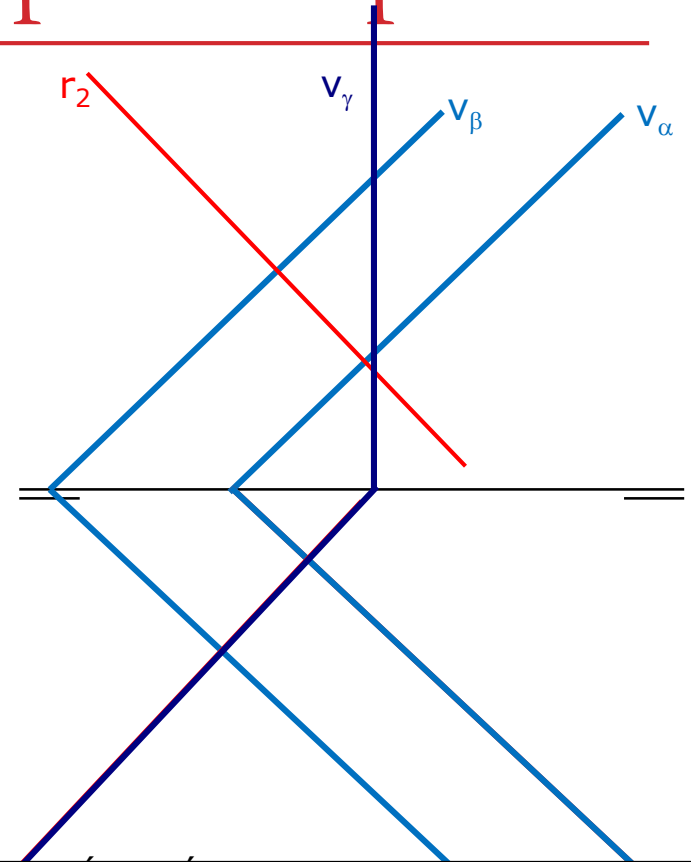
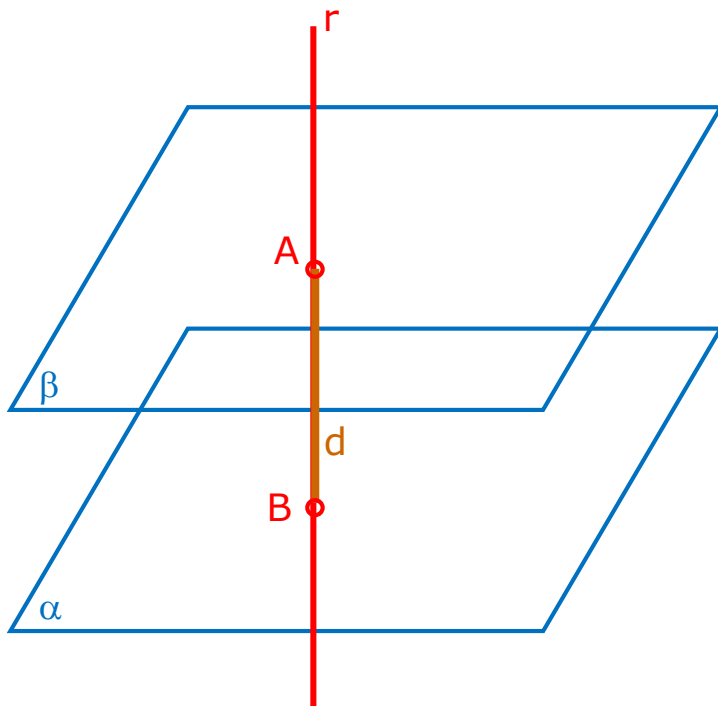


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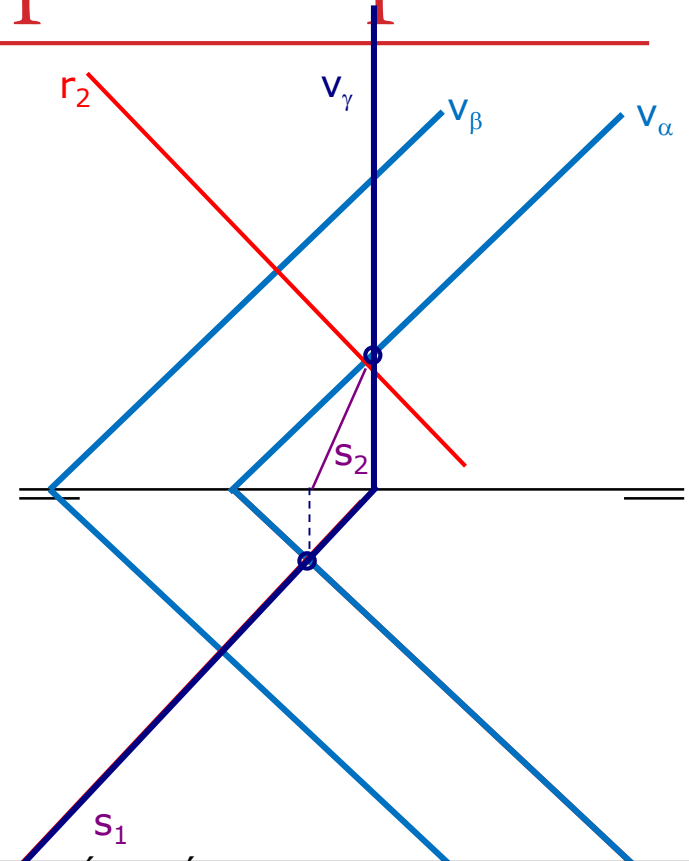
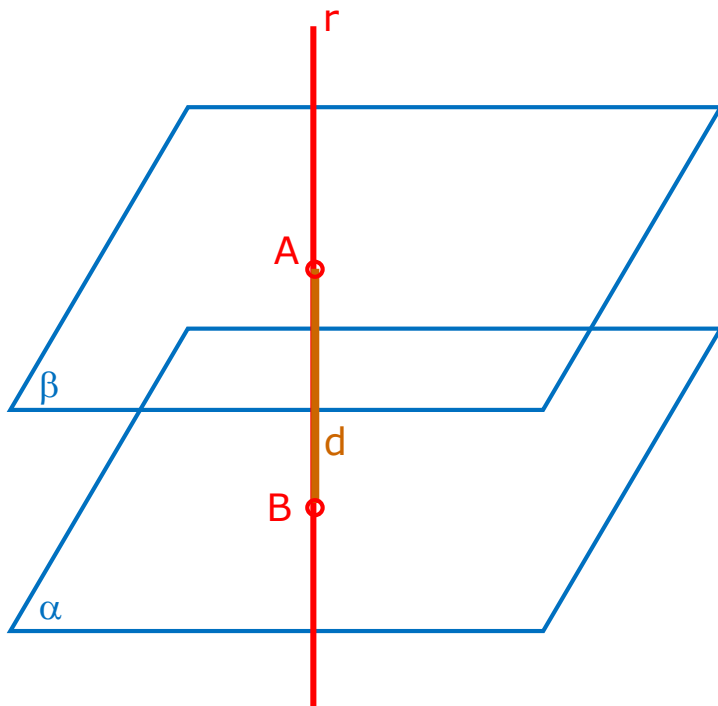


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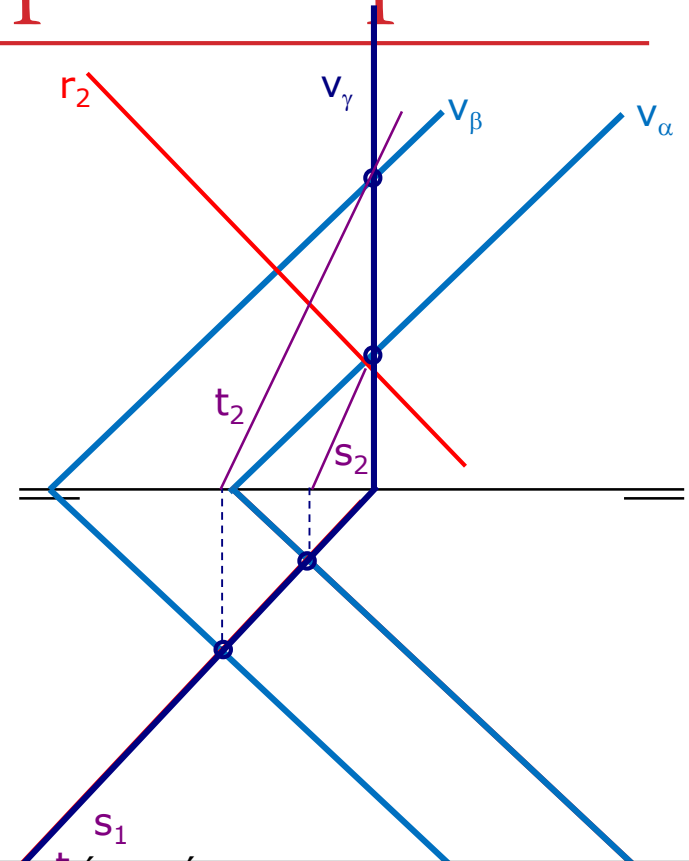
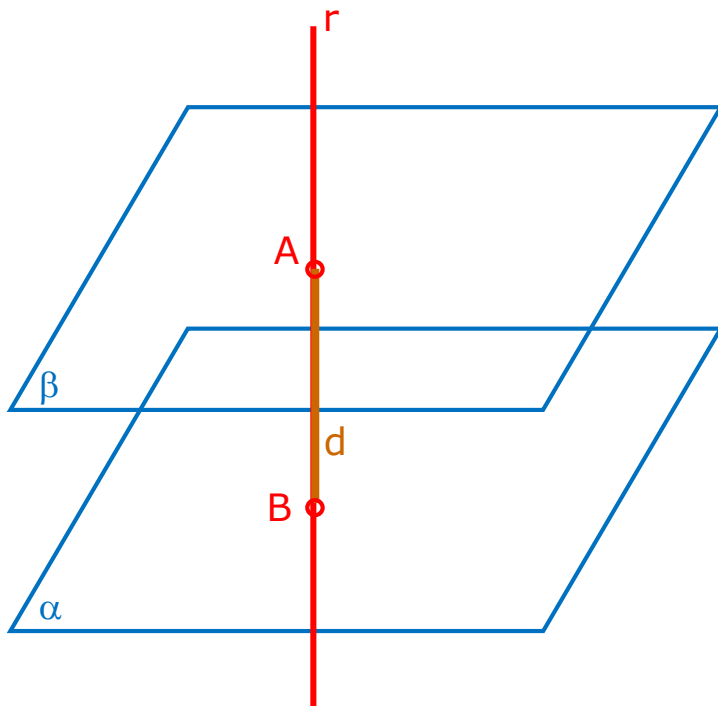


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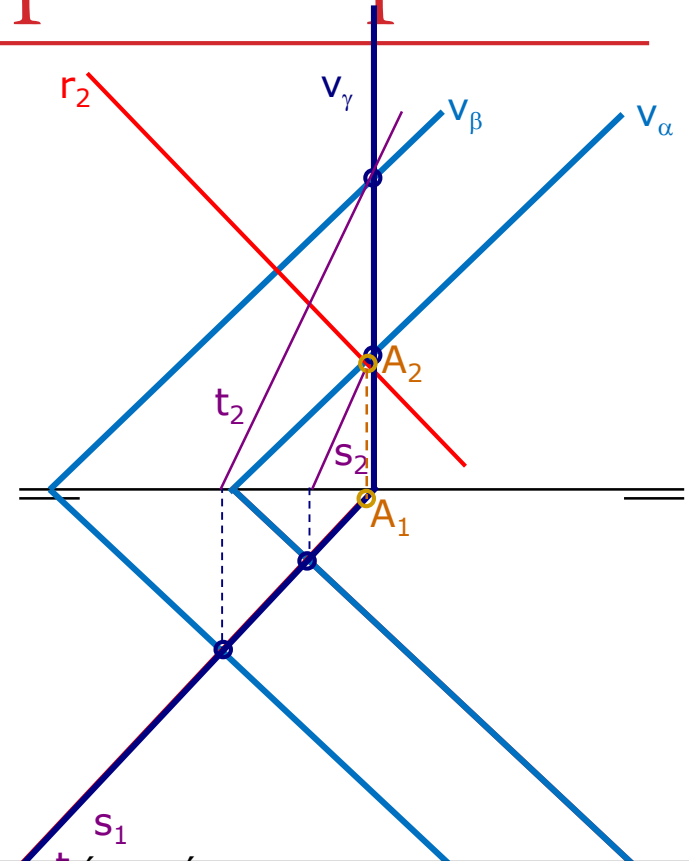
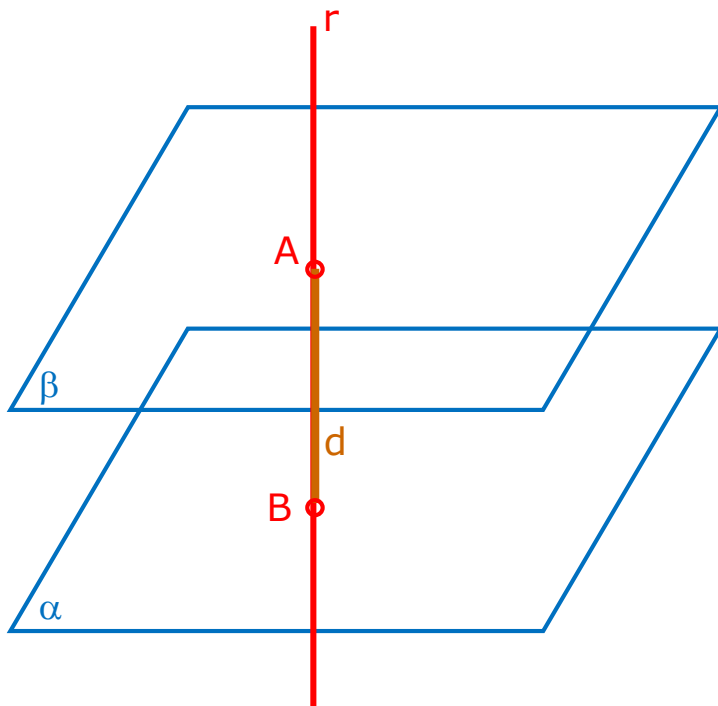


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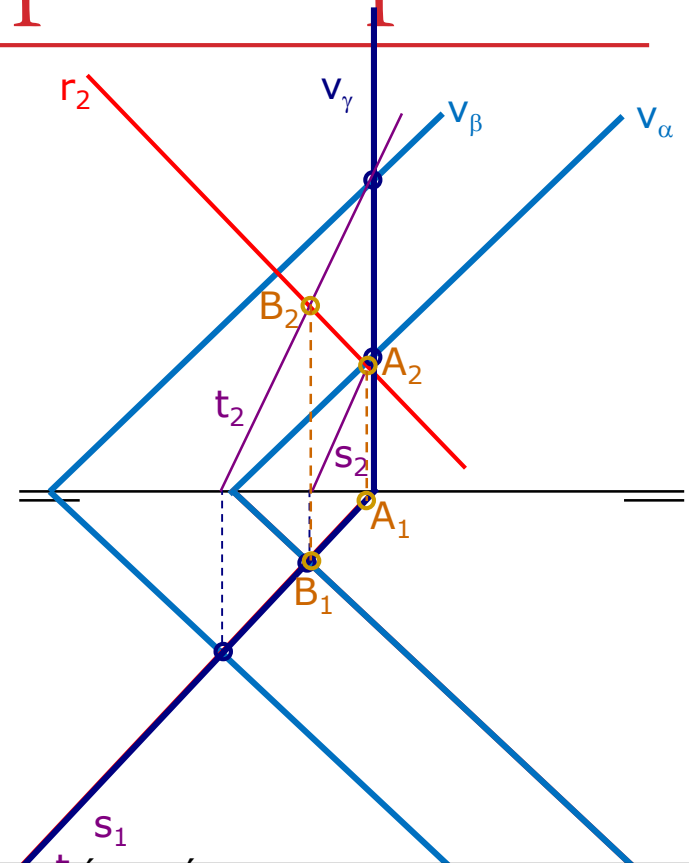
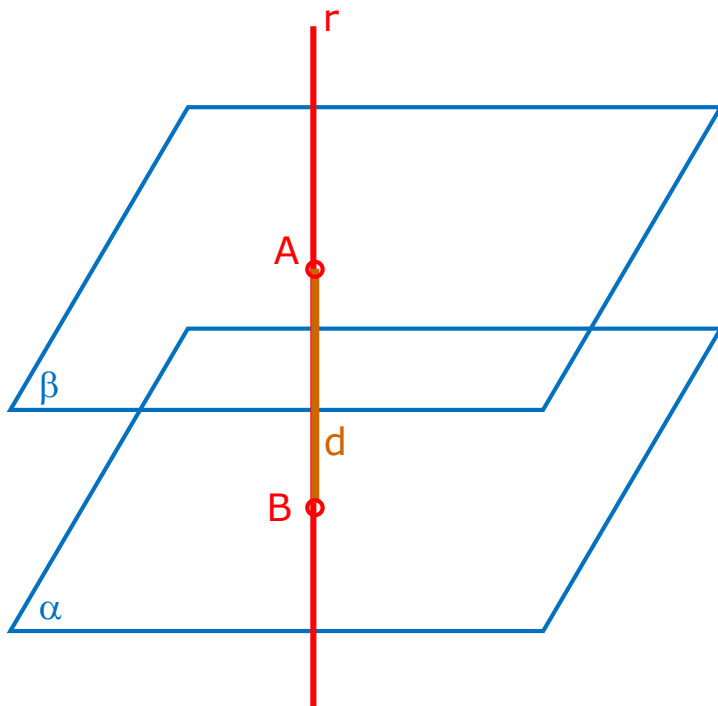


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Distance between two parallel planes



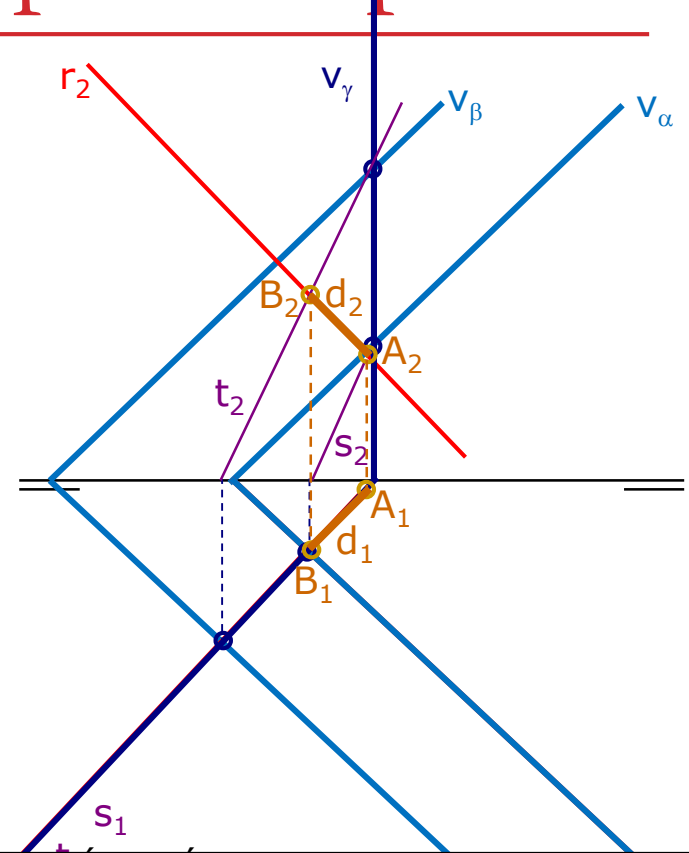
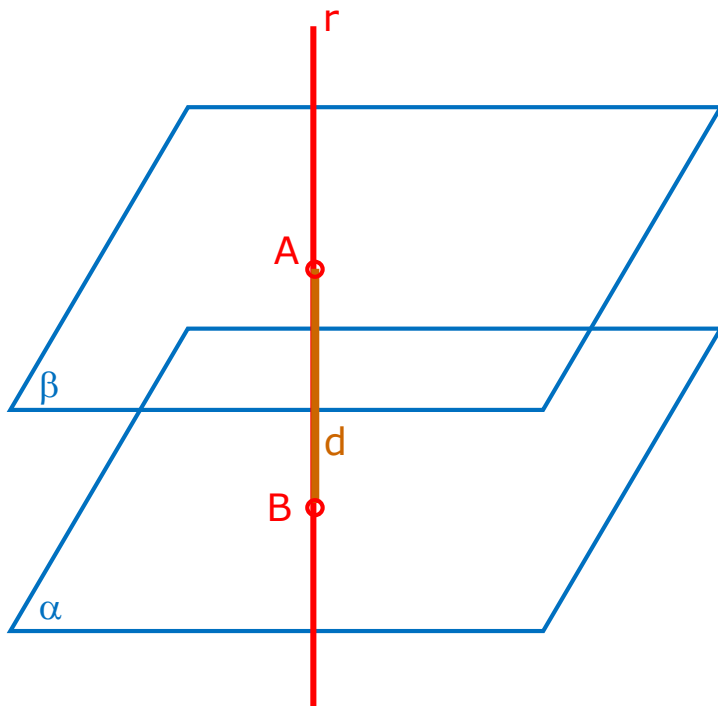
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Point B: intersection with t

Distance between two parallel planes



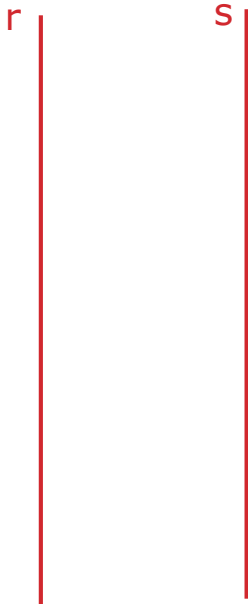
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Point B: intersection with α

Distance between two parallel lines



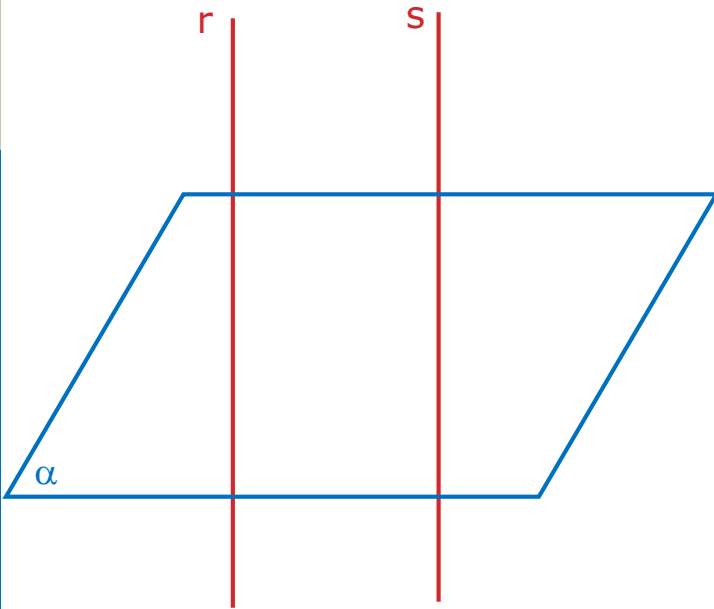
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Distance between two parallel lines



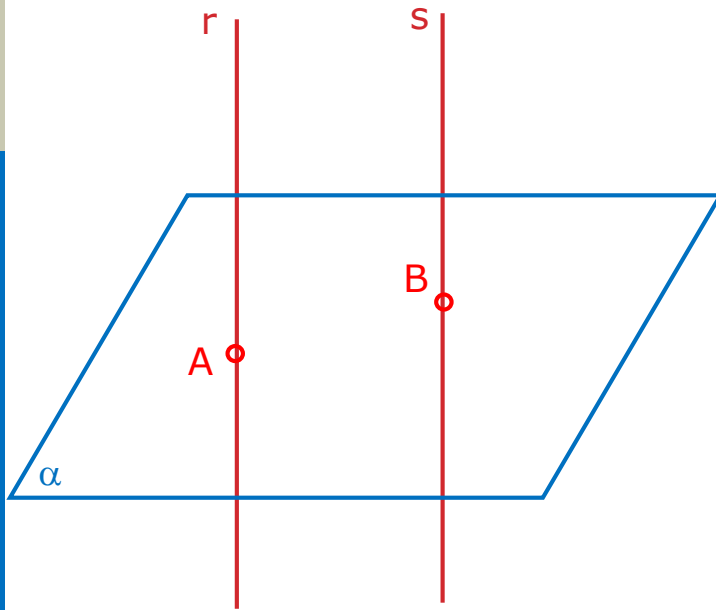
1. Plane $\alpha \perp$ to lines r and s

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Distance between two parallel lines



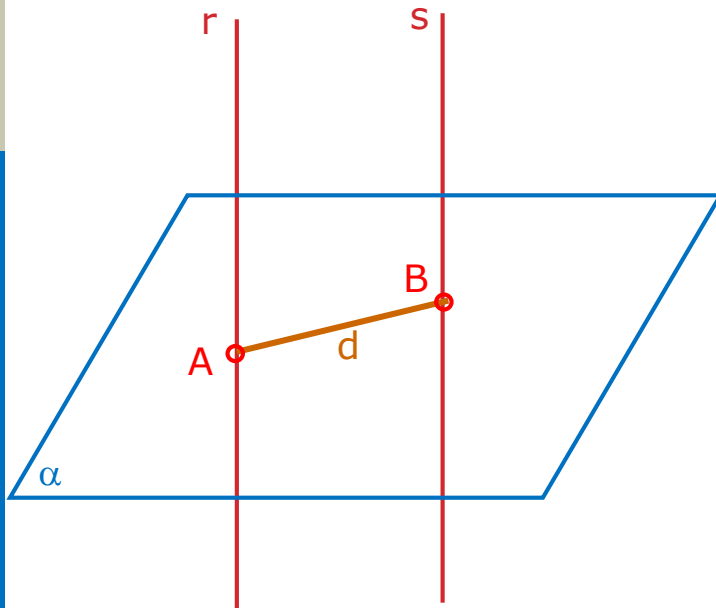
1. Plane $\alpha \perp$ to lines r and s
2. Intersection between plane α and lines r and s

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Distance between two parallel lines



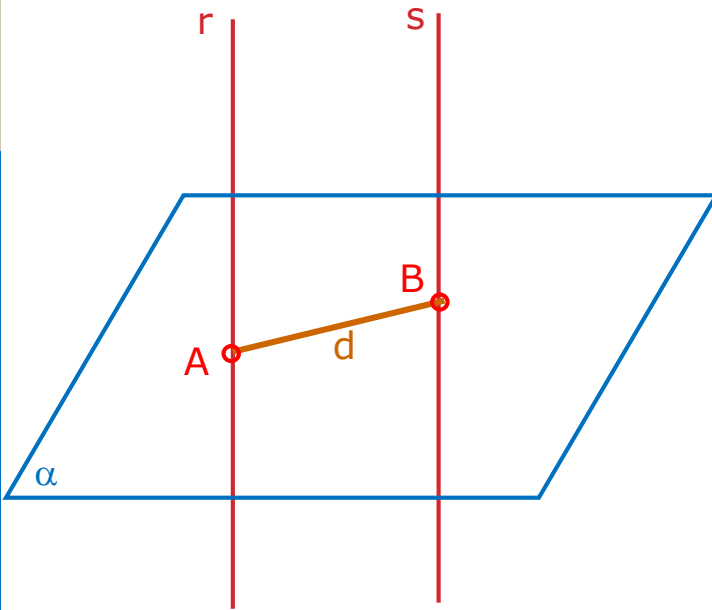
1. Plane $\alpha \perp$ to lines r and s
2. Intersection between plane α and lines r and s

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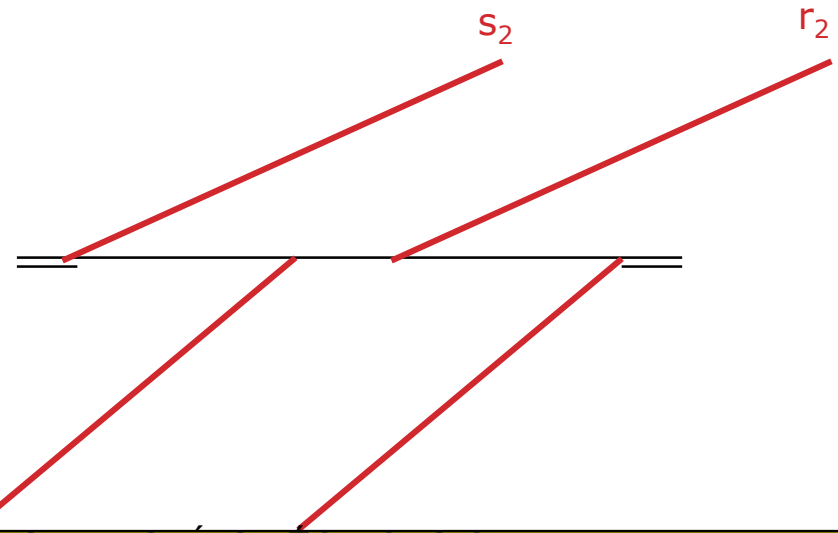
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Distance between two parallel lines



1. Plane $\alpha \perp$ to lines r and s
2. Intersection between plane α and lines r and s

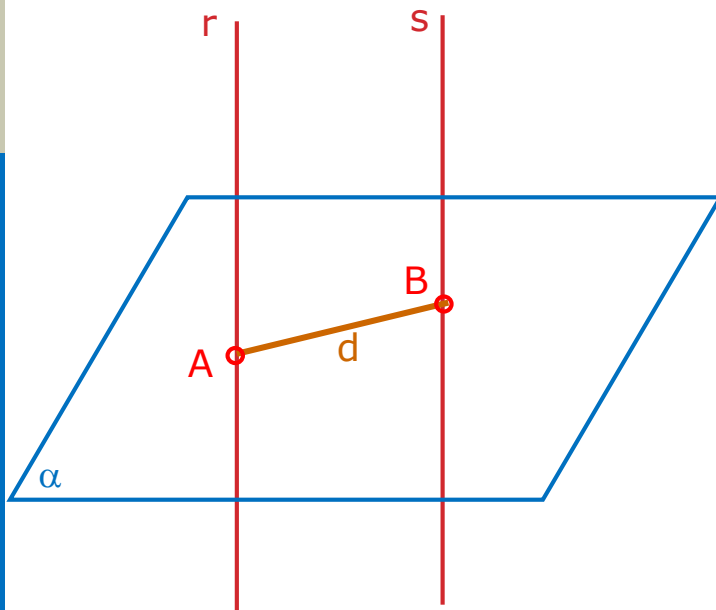


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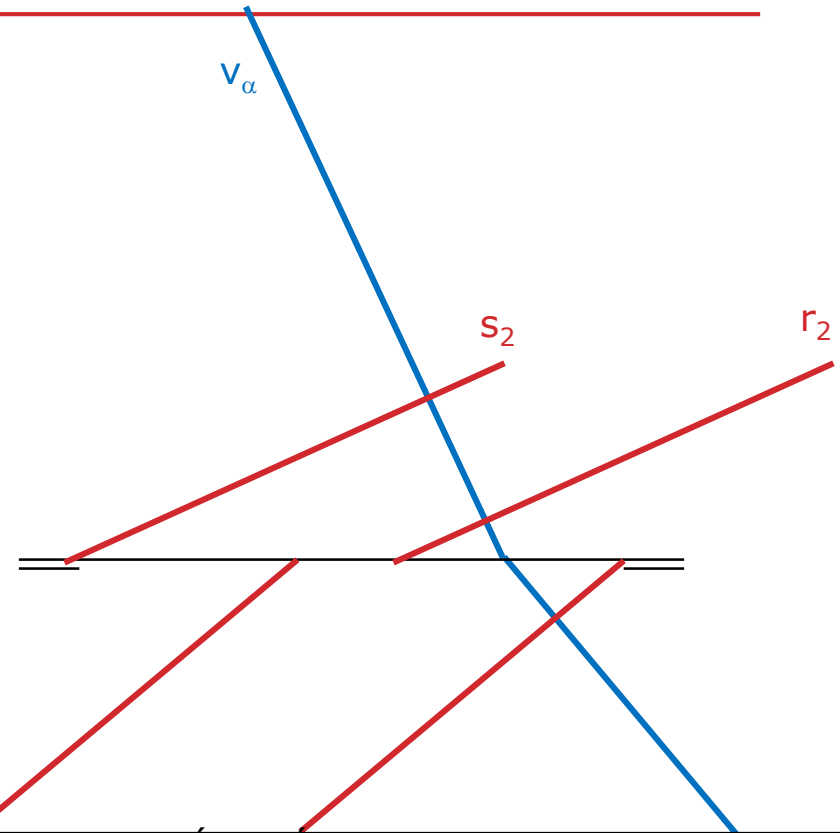
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Distance between two parallel lines



1. Plane $\alpha \perp$ to lines r and s
2. Intersection between plane α and lines r and s

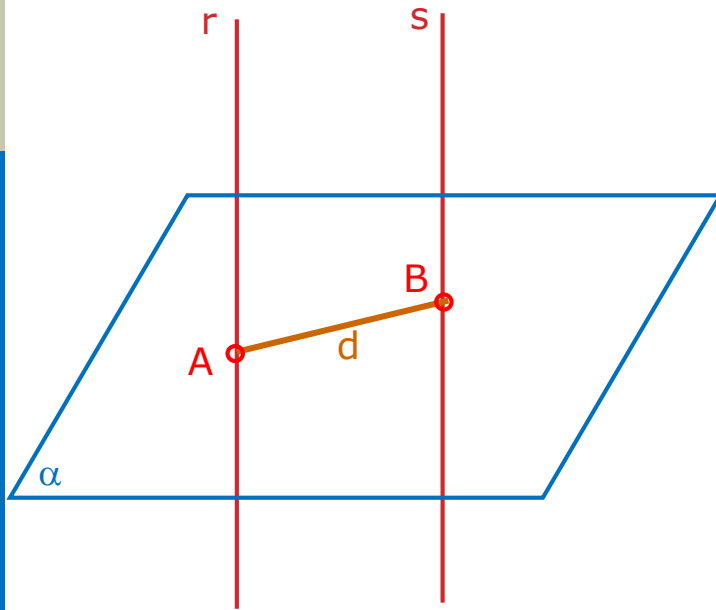


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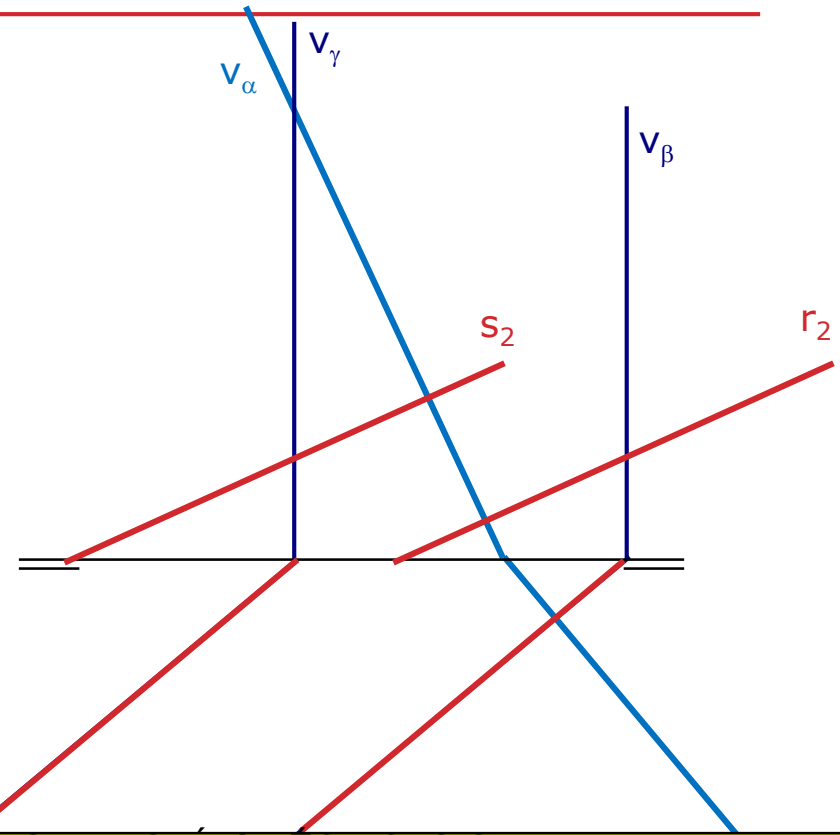
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Distance between two parallel lines



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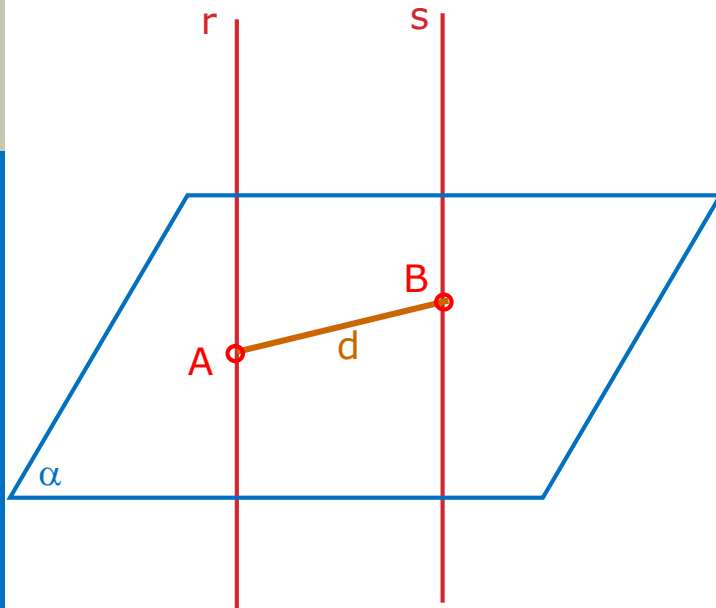


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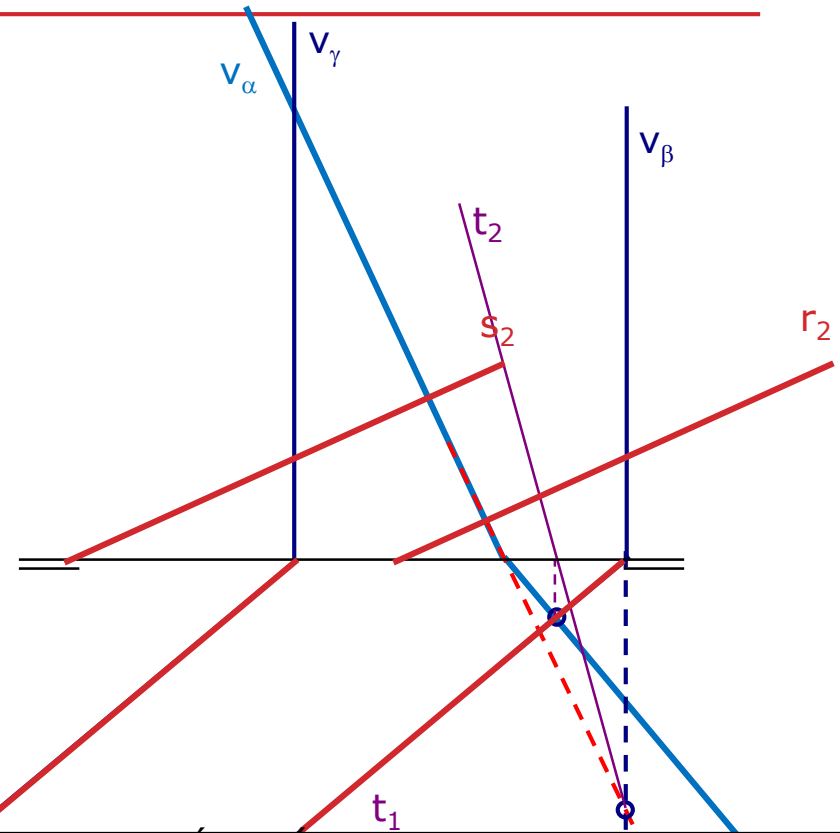
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1. Plane $\alpha \perp$ to lines r and s
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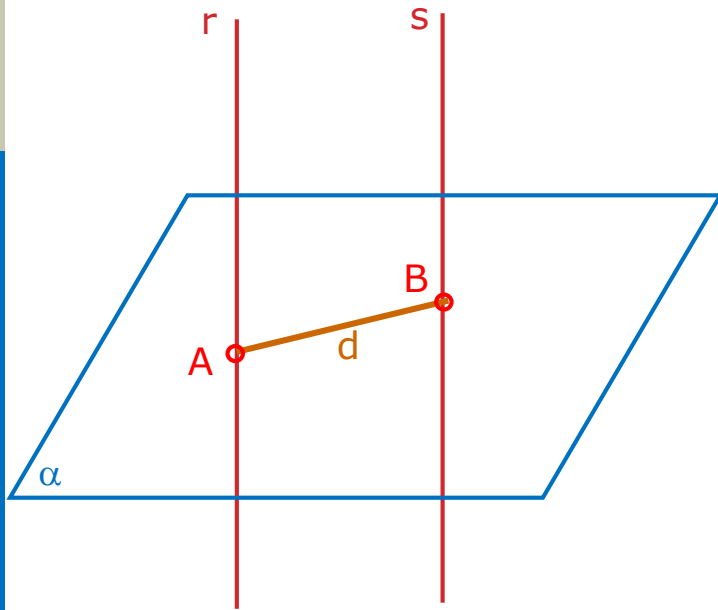


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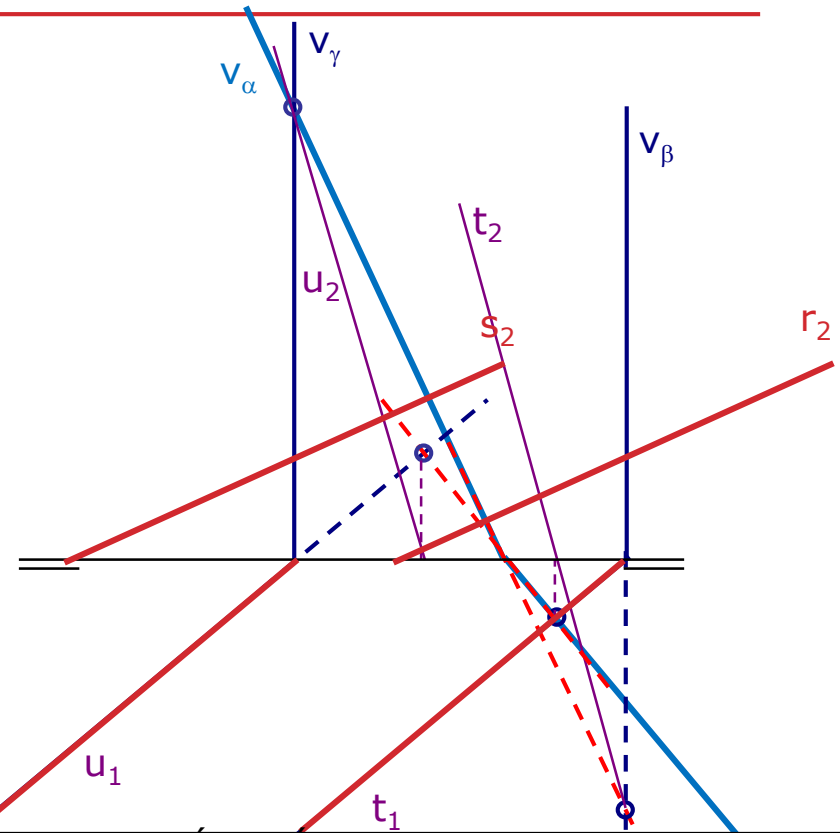
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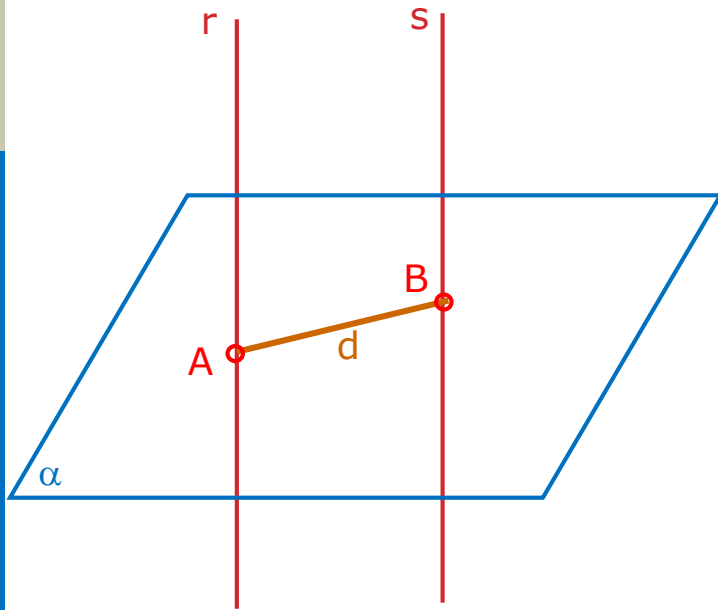


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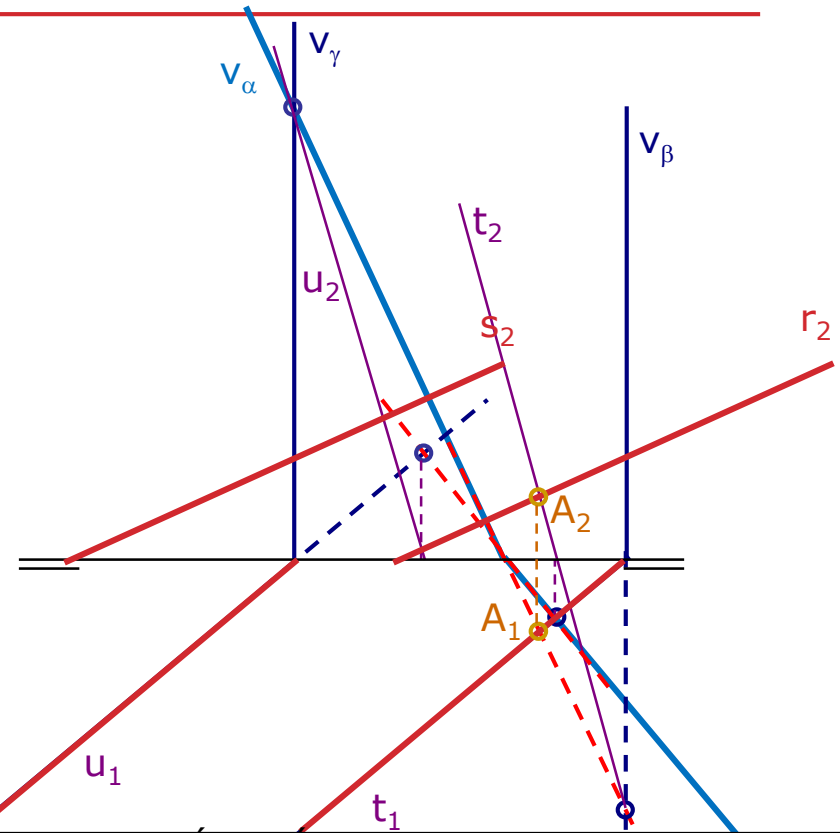
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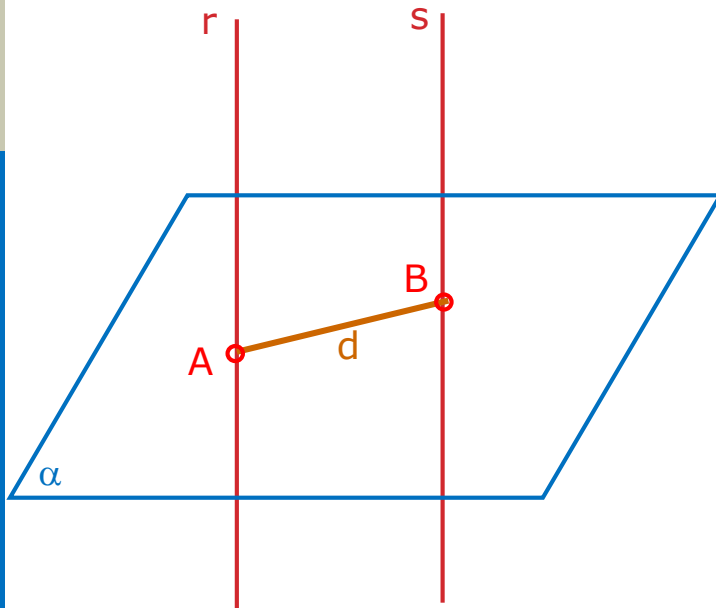


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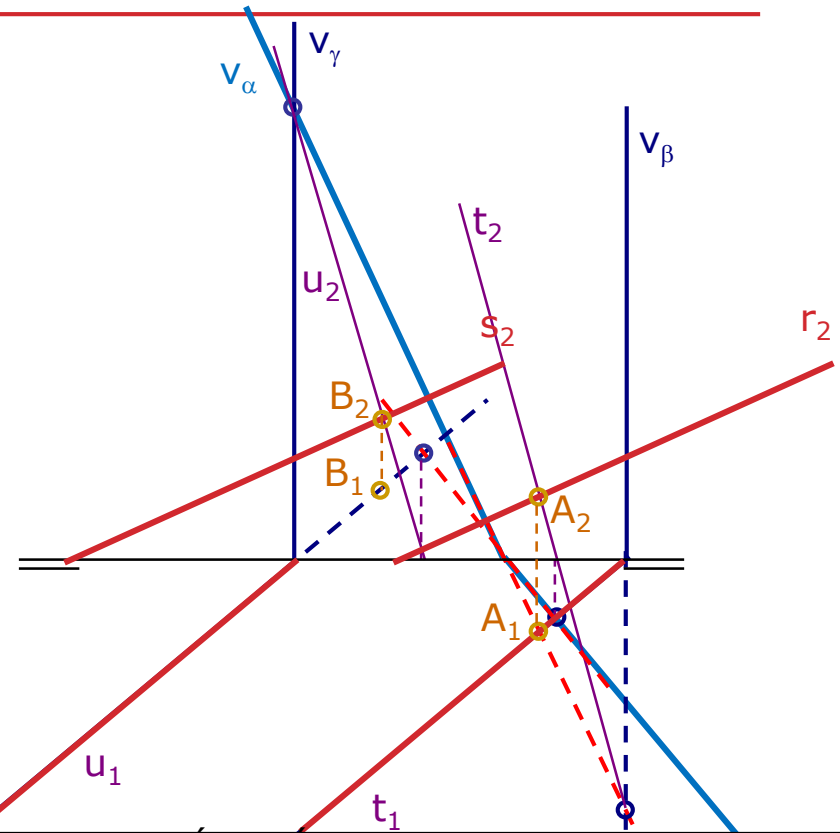
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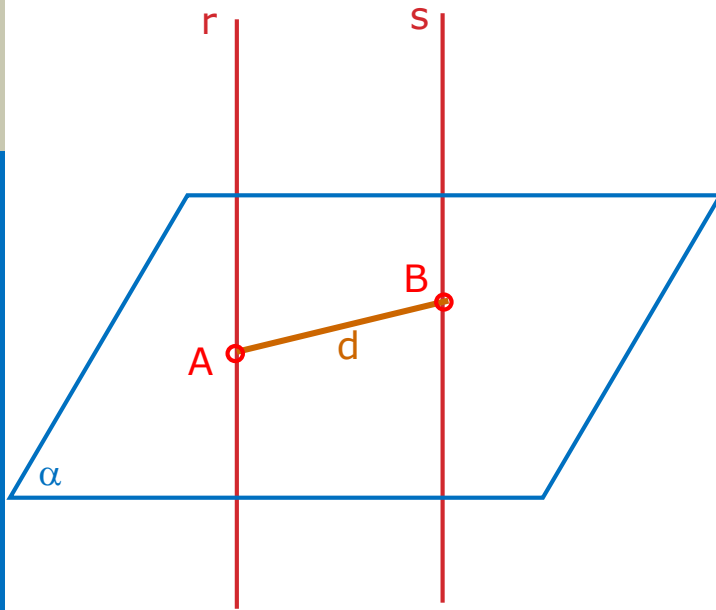


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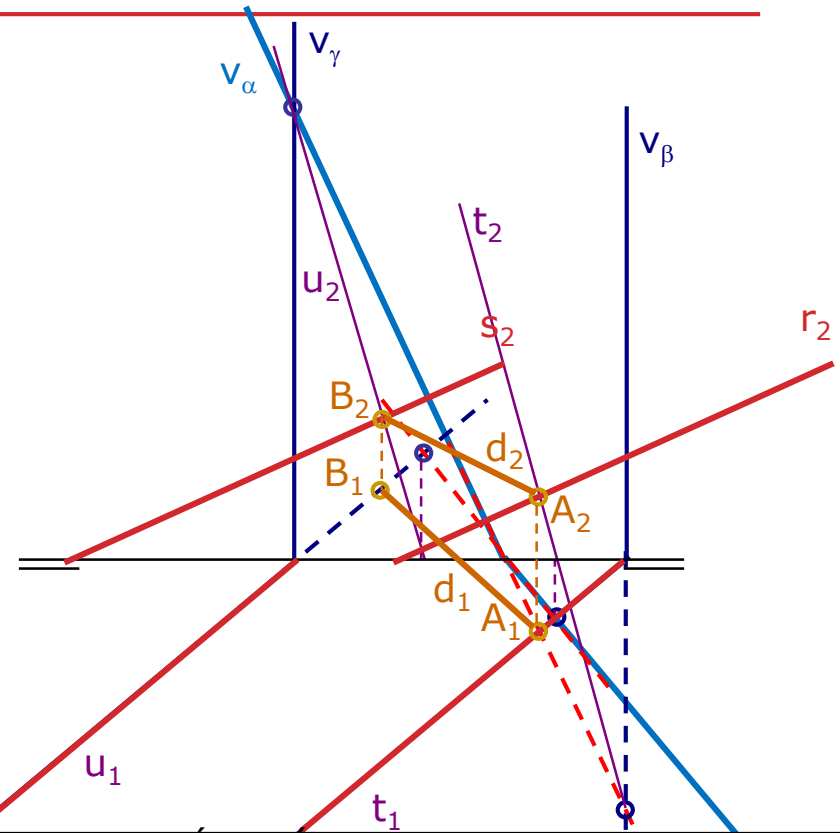
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Distance between two parallel lines



1. Plane $\alpha \perp$ to lines r and s
2. Intersection between plane α and lines r and s

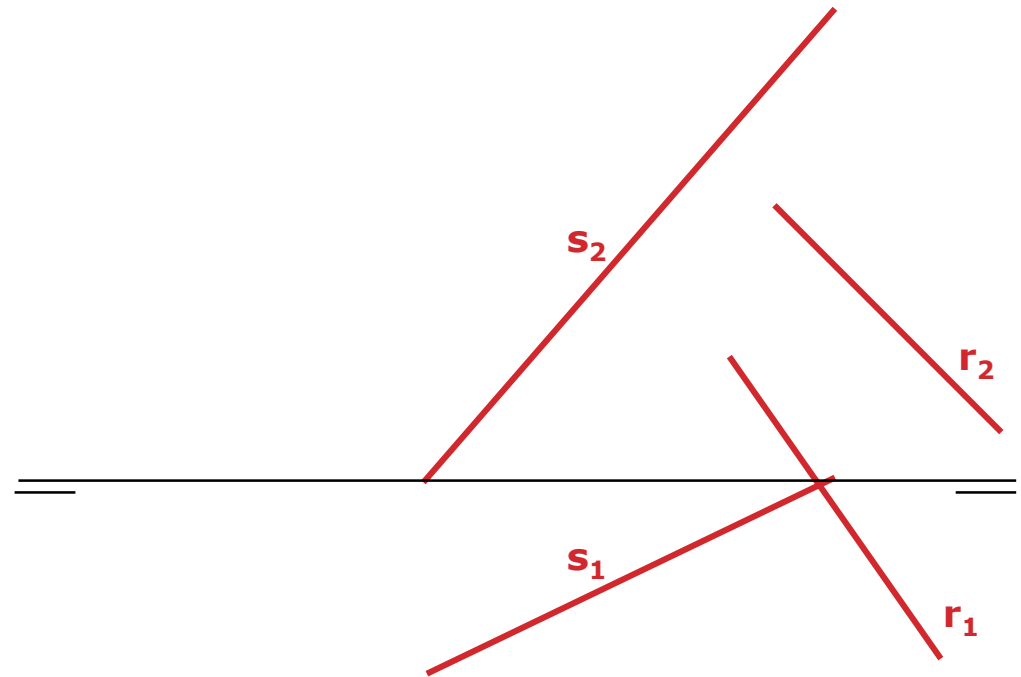
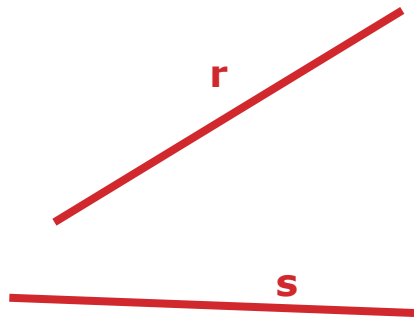


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Distance between two crossing lines

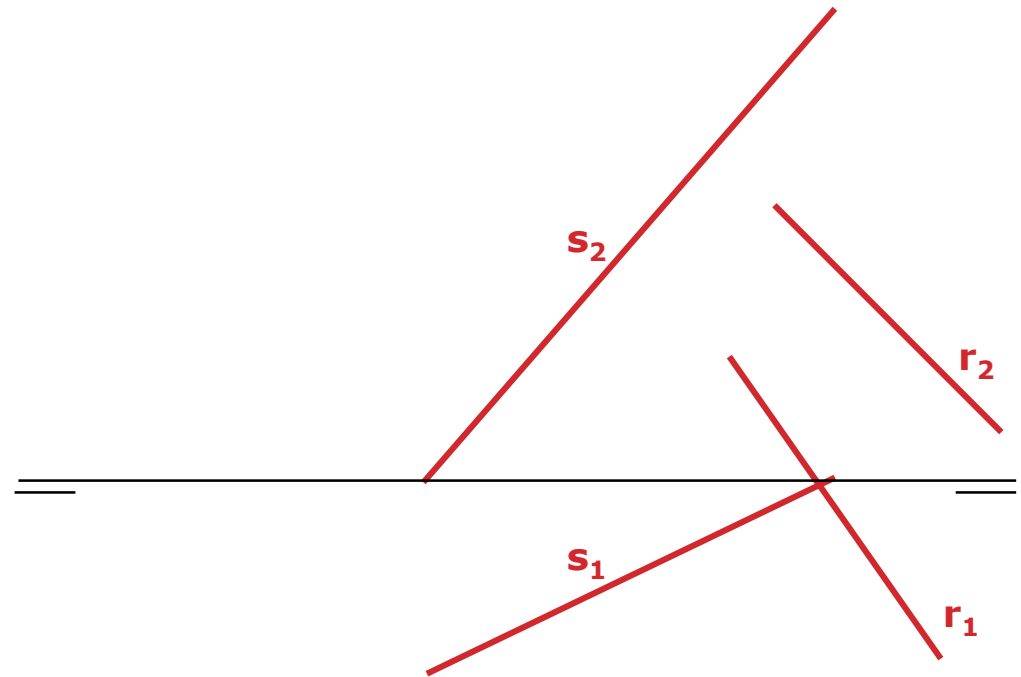
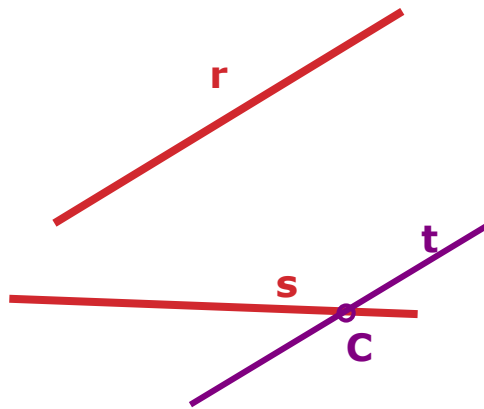


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Distance between two crossing lines

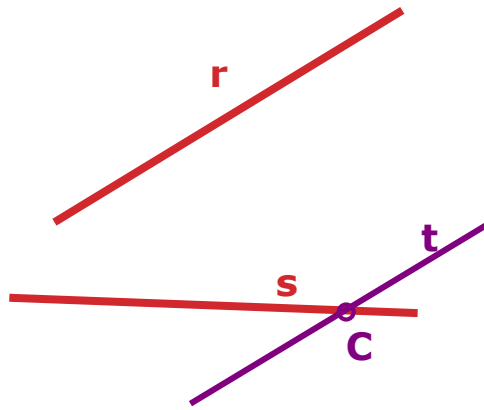


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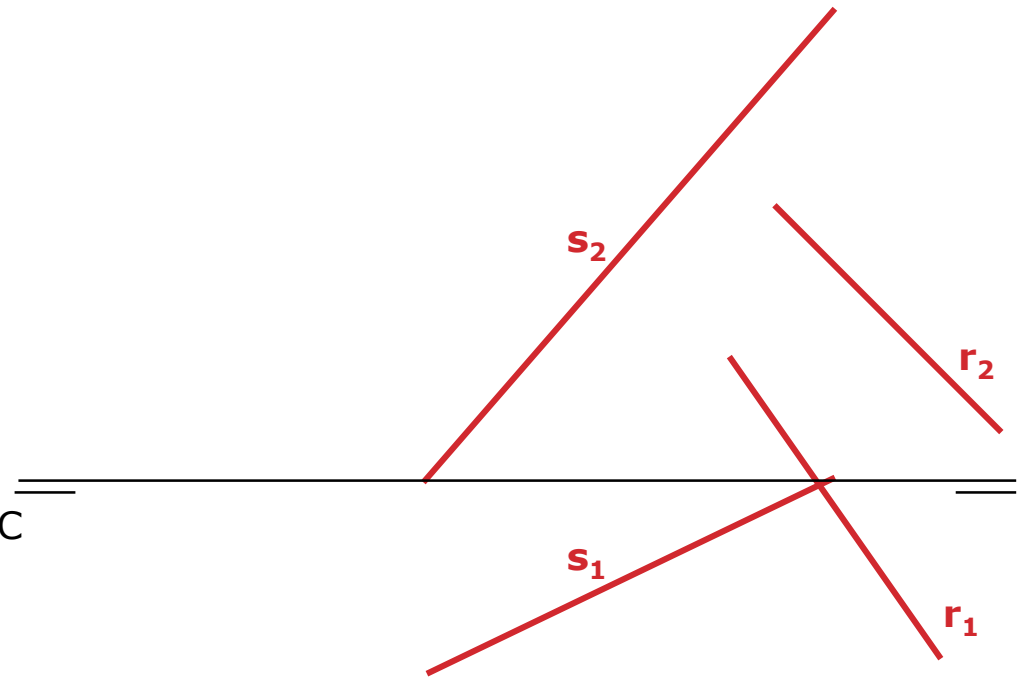
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Distance between two crossing lines



1. Draw line t passing through a point C that belongs to s

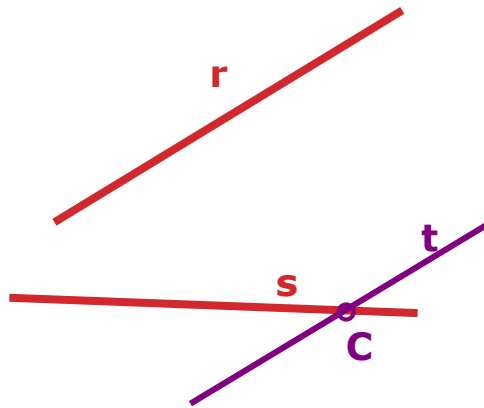


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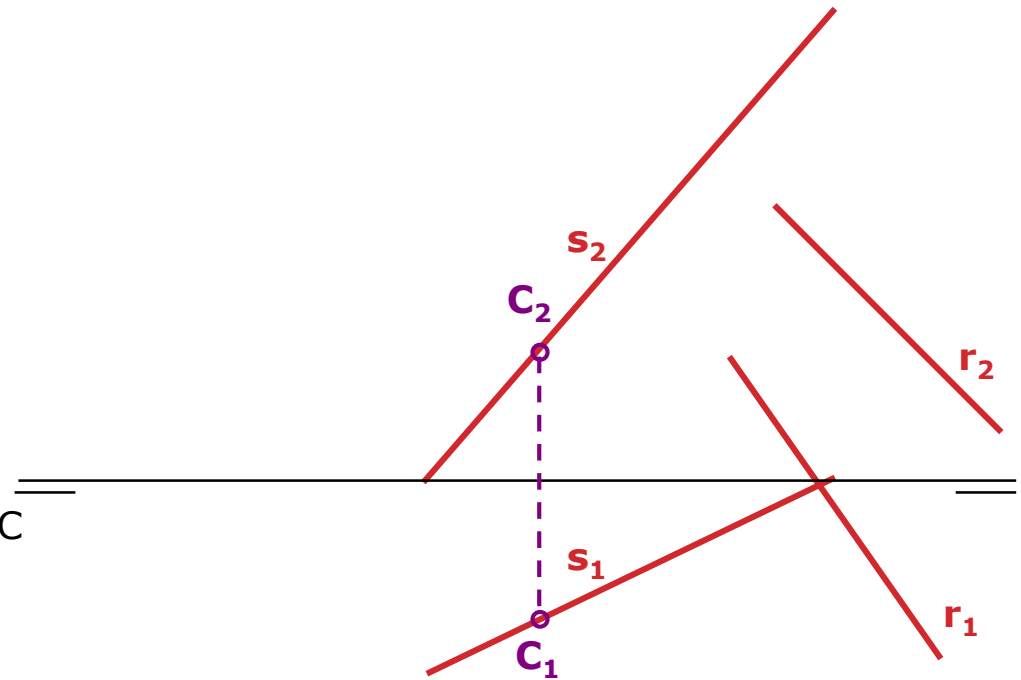
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Distance between two crossing lines



1. Draw line $t \perp r$ passing through a point C that belongs to s

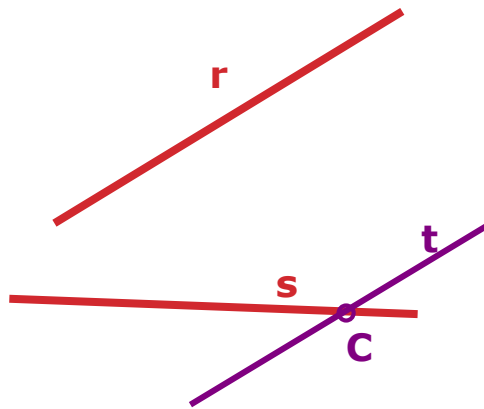


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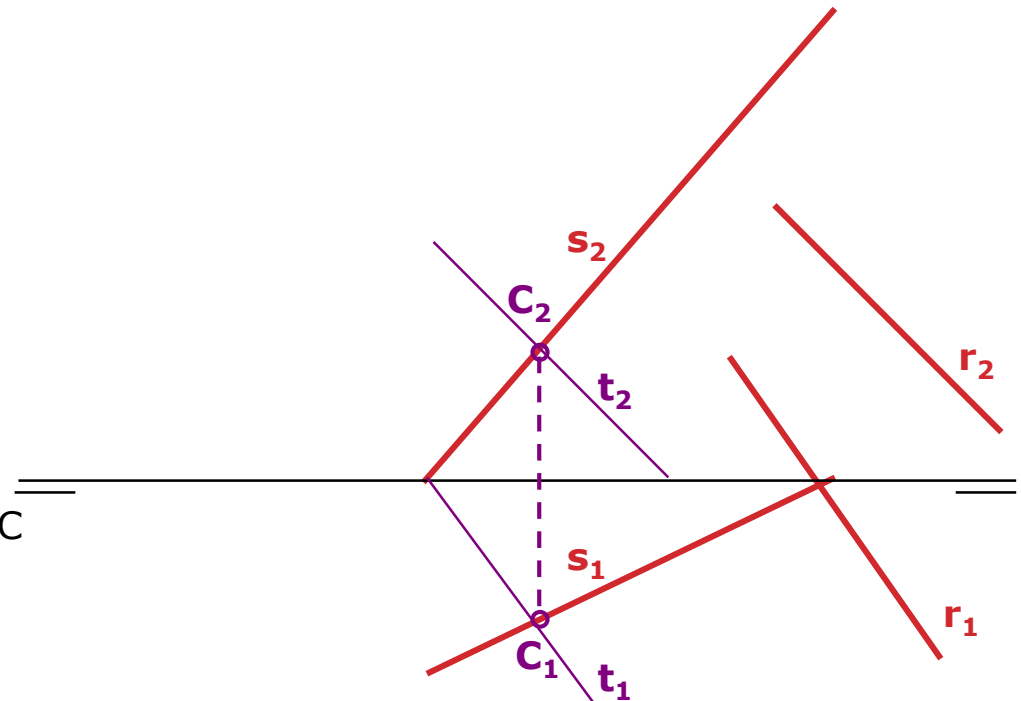
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Distance between two crossing lines



1. Draw line $t \perp r$ passing through a point C that belongs to s

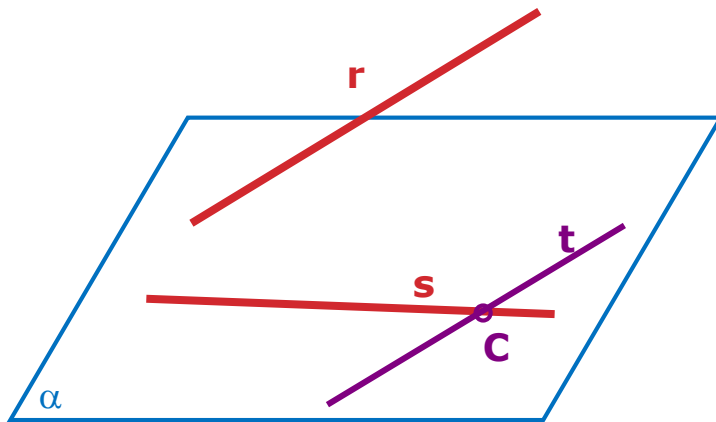


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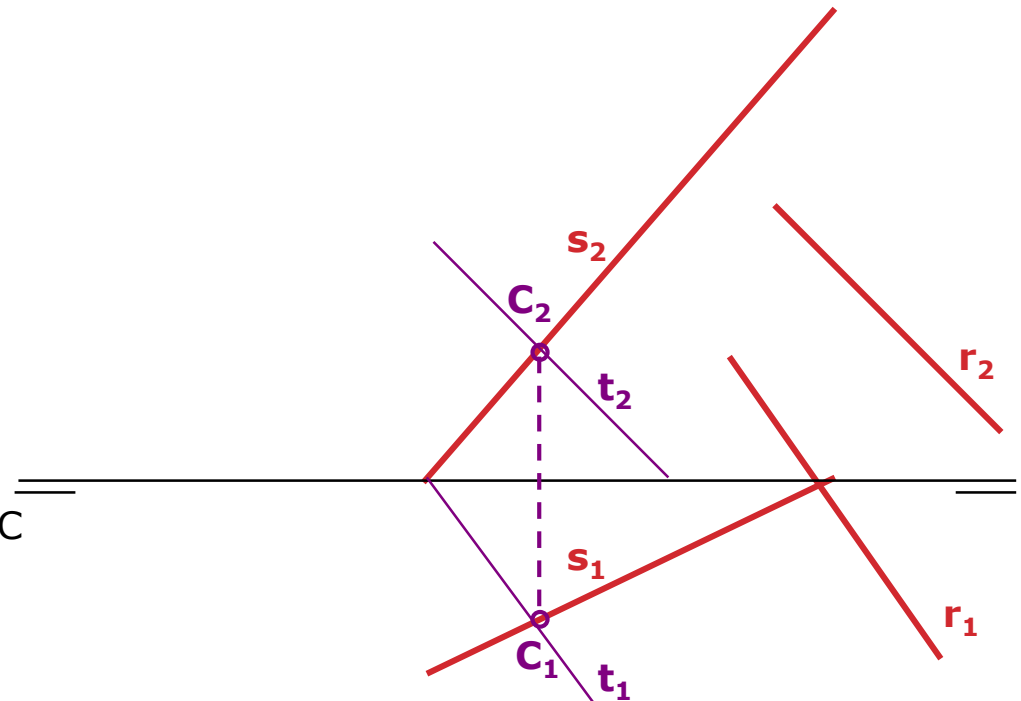
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Distance between two crossing lines



1. Draw line $t \parallel r$ passing through a point C that belongs to s

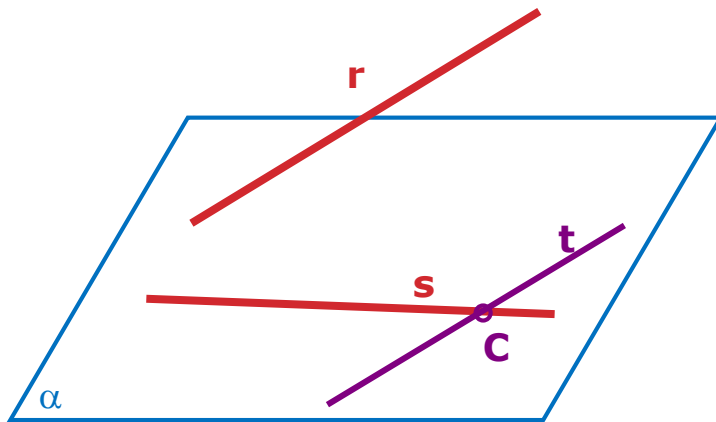


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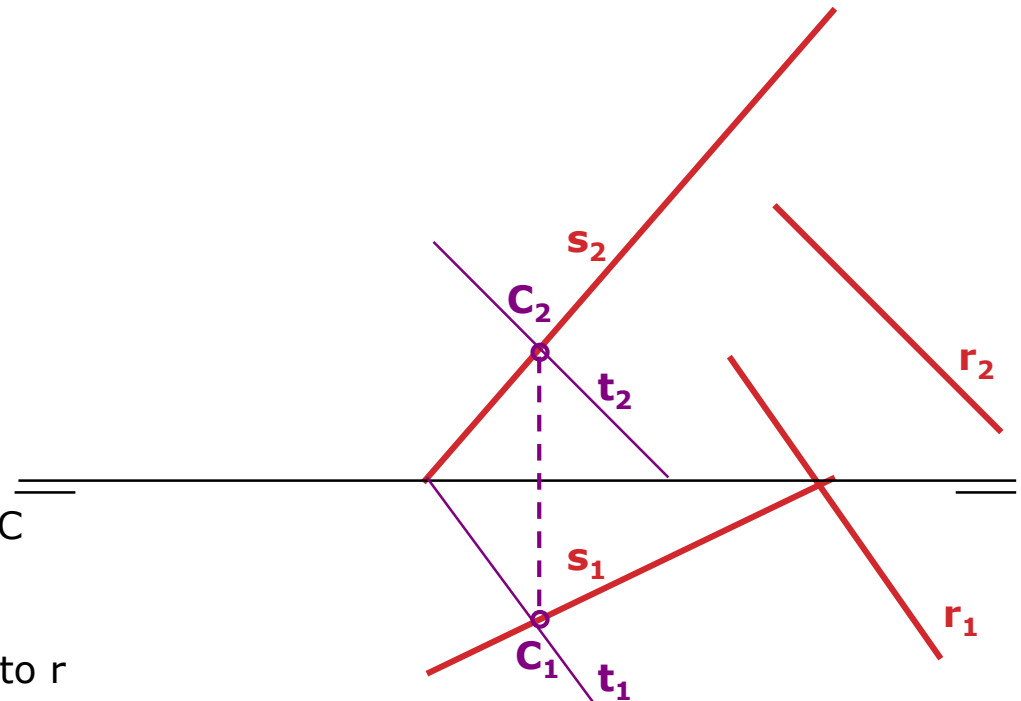
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Distance between two crossing lines



1. Draw line $t // r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

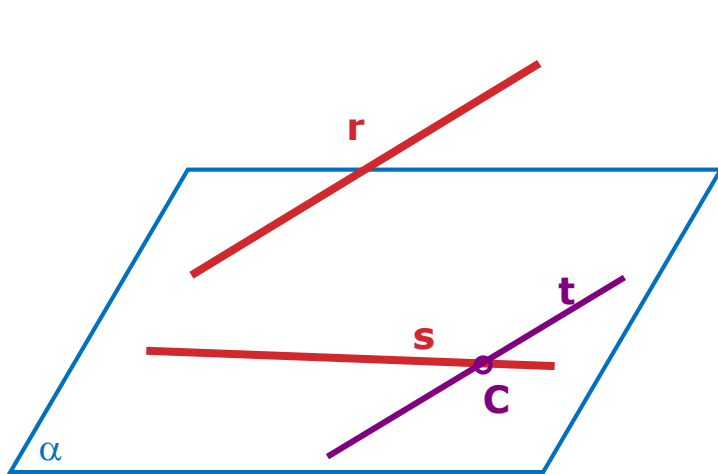


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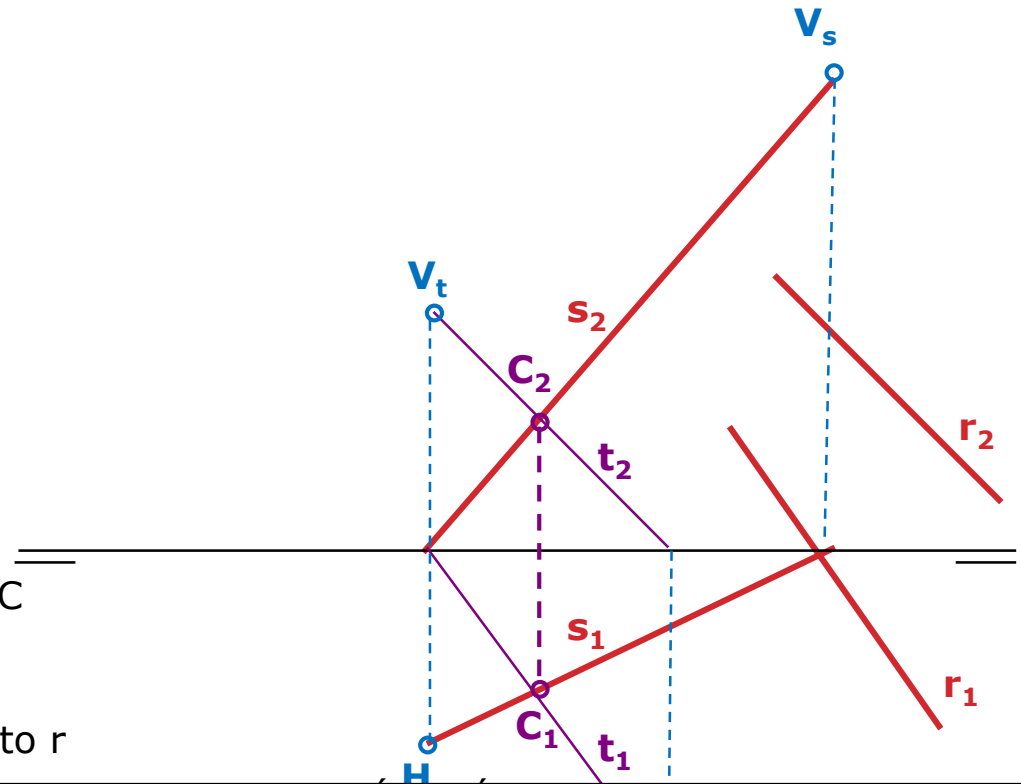
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Distance between two crossing lines



1. Draw line $t//r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

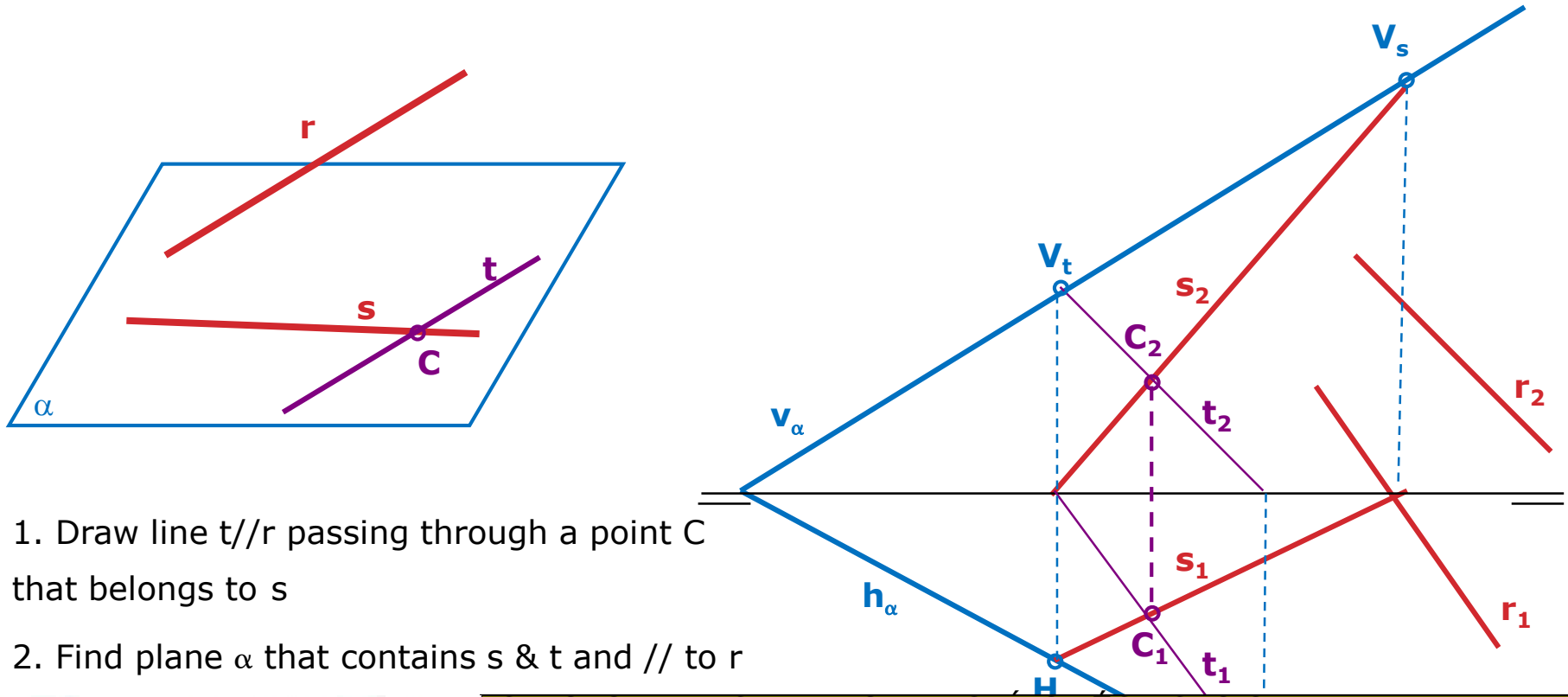


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Distance between two crossing lines



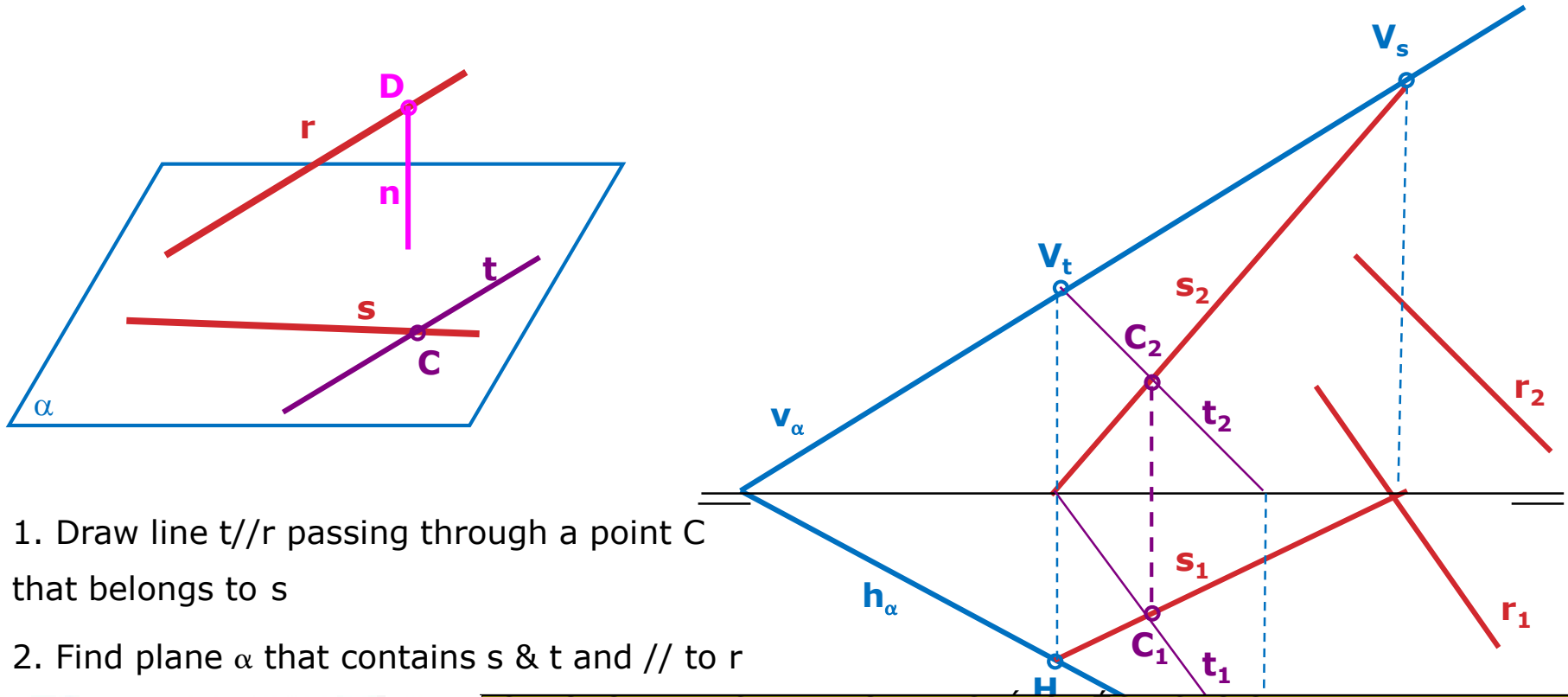
1. Draw line $t//r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

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Distance between two crossing lines



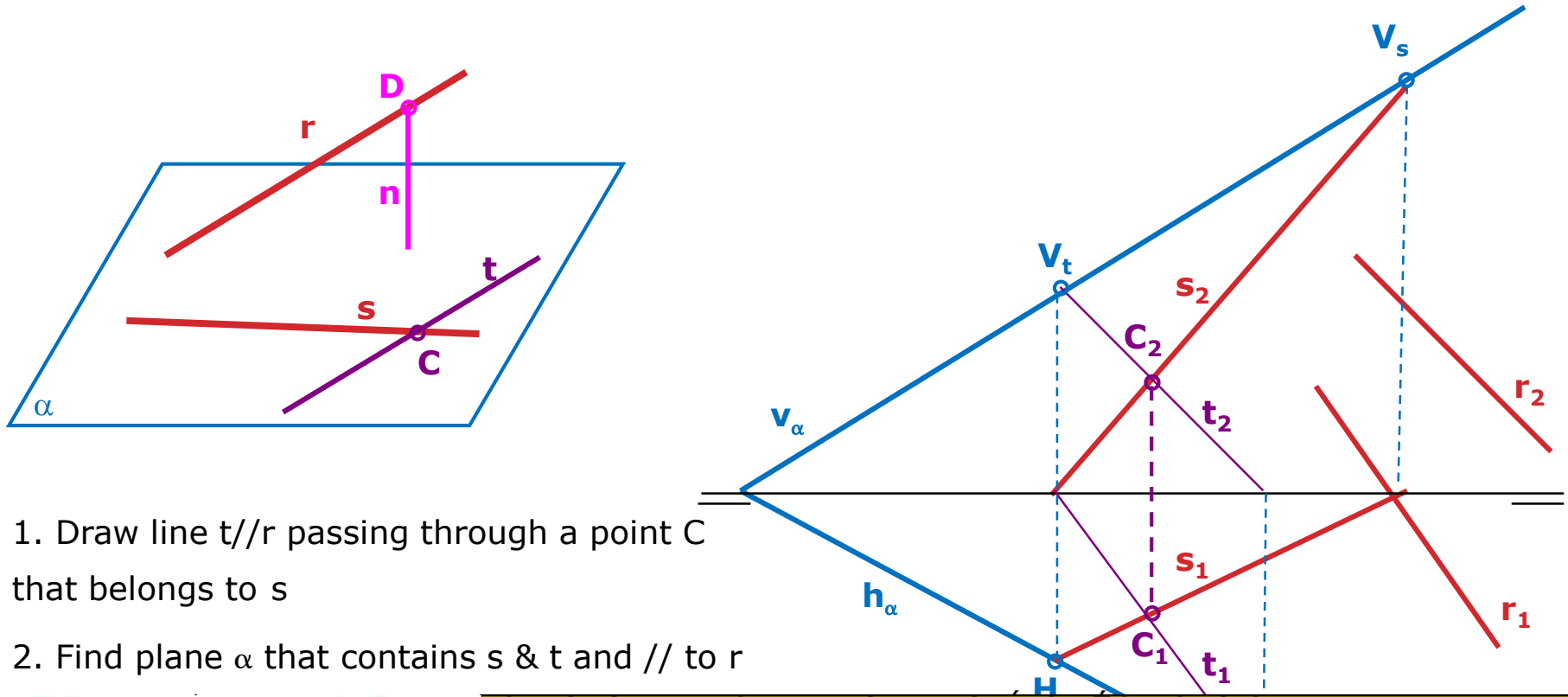
1. Draw line $t//r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

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Distance between two crossing lines



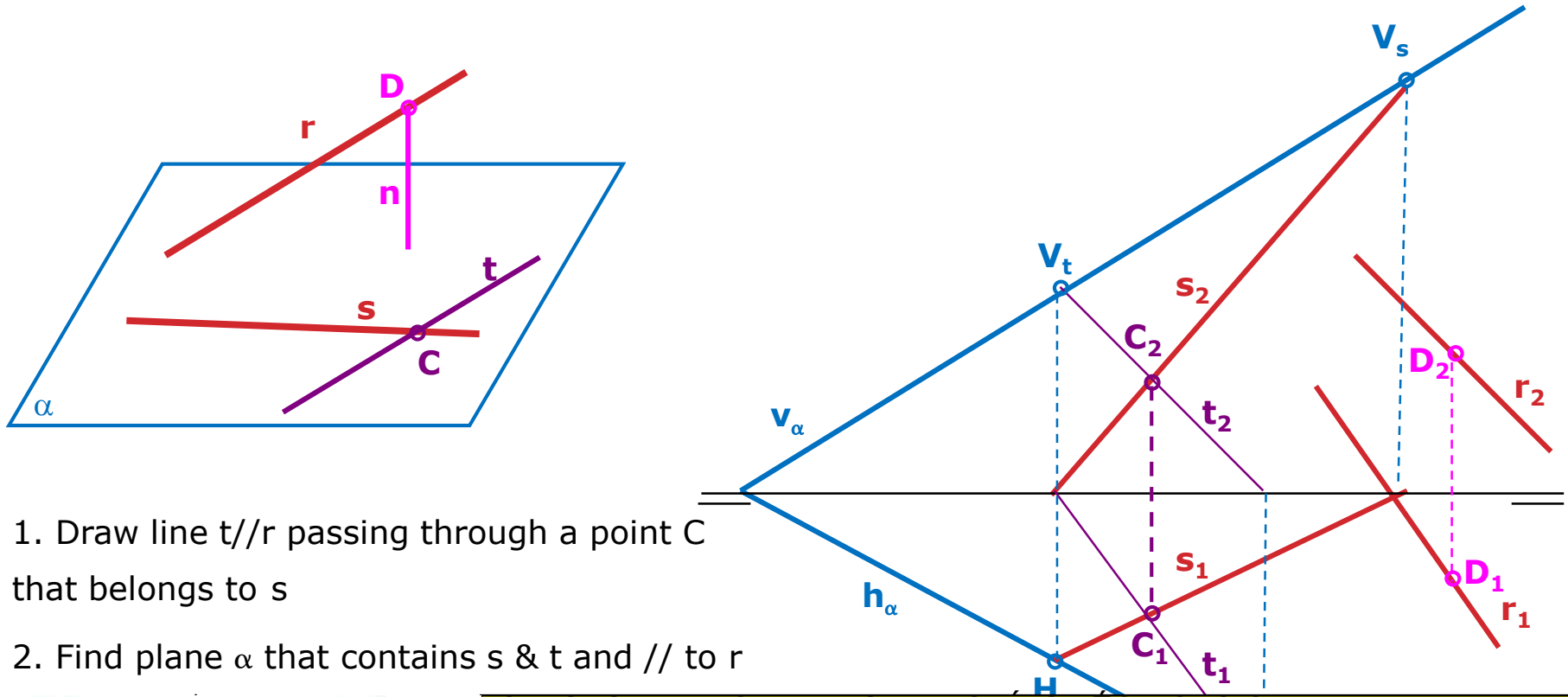
1. Draw line $t//r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

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Distance between two crossing lines



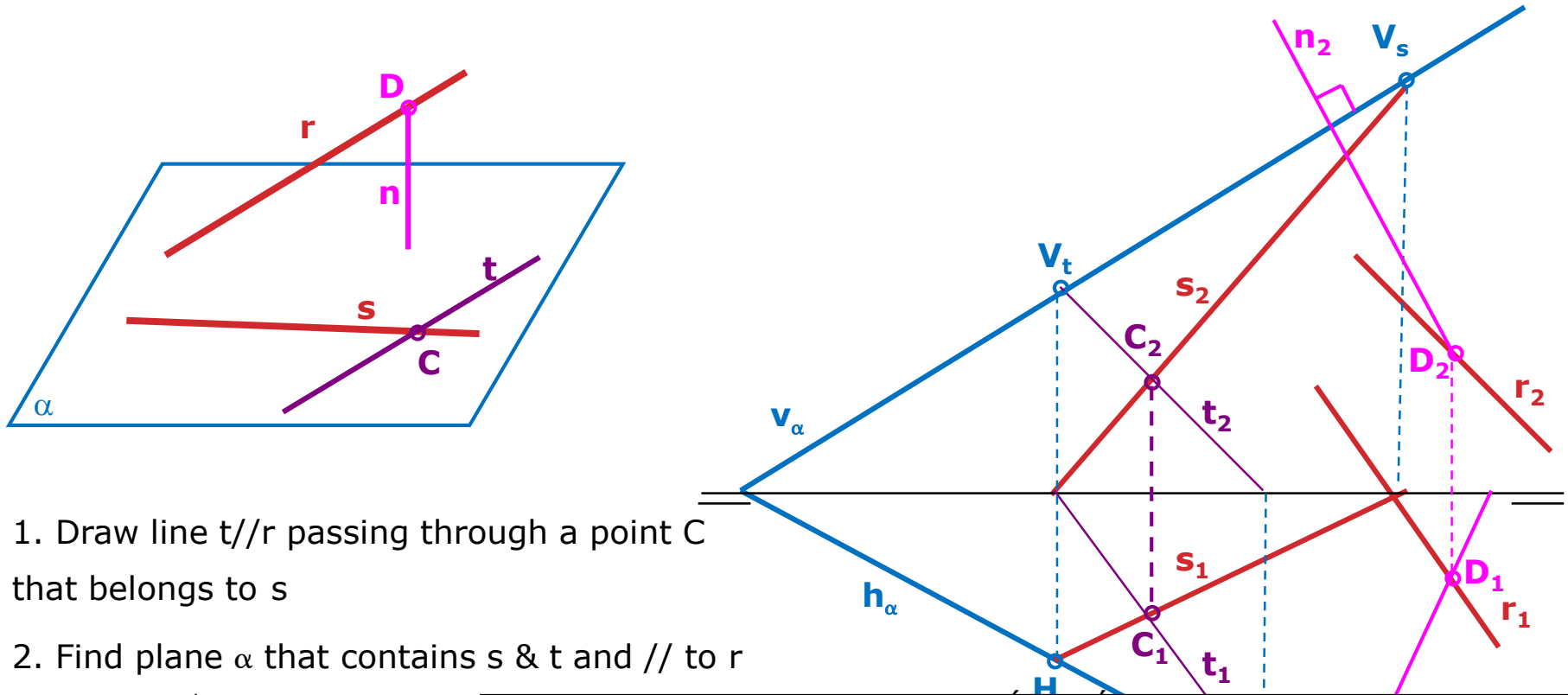
1. Draw line $t//r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

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Distance between two crossing lines



1. Draw line $t // r$ passing through a point C that belongs to s
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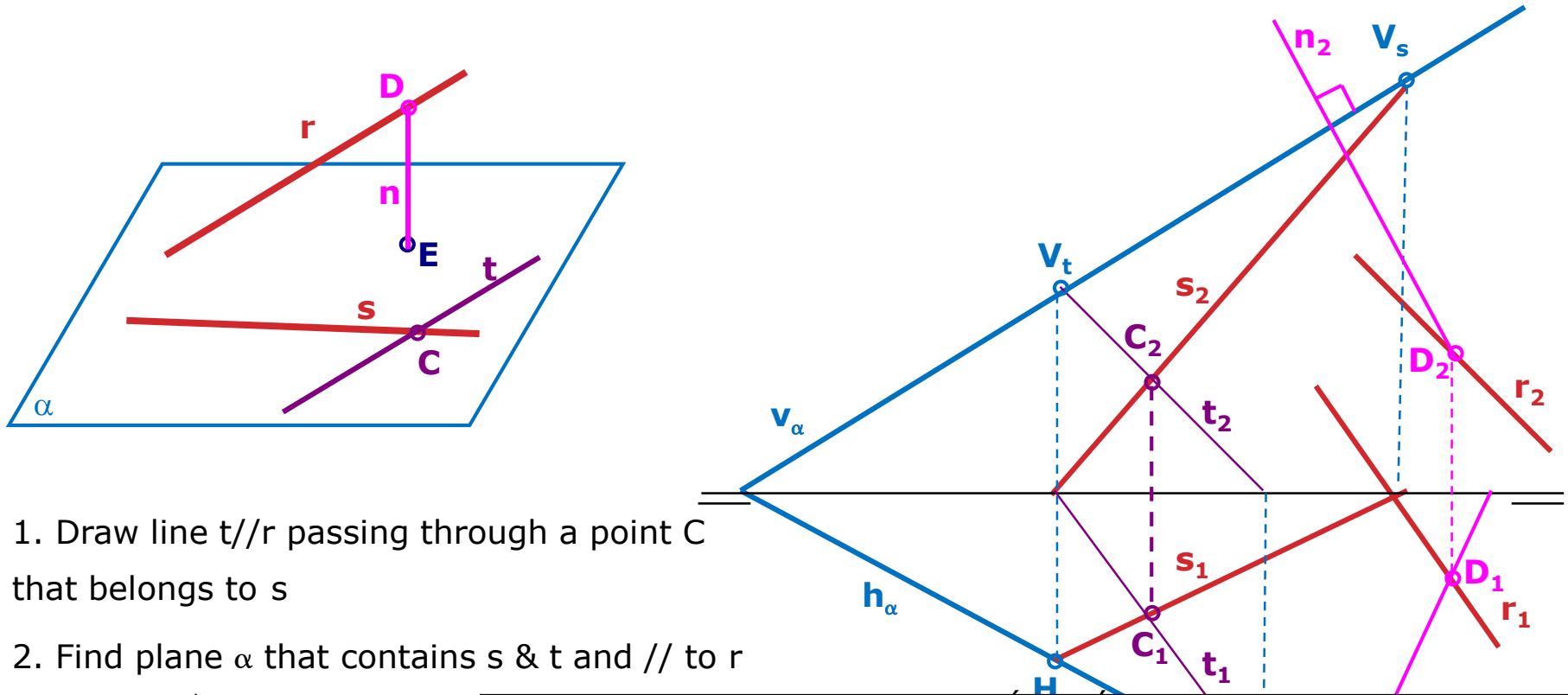
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$r // n_1$

Distance between two crossing lines



1. Draw line $t//r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

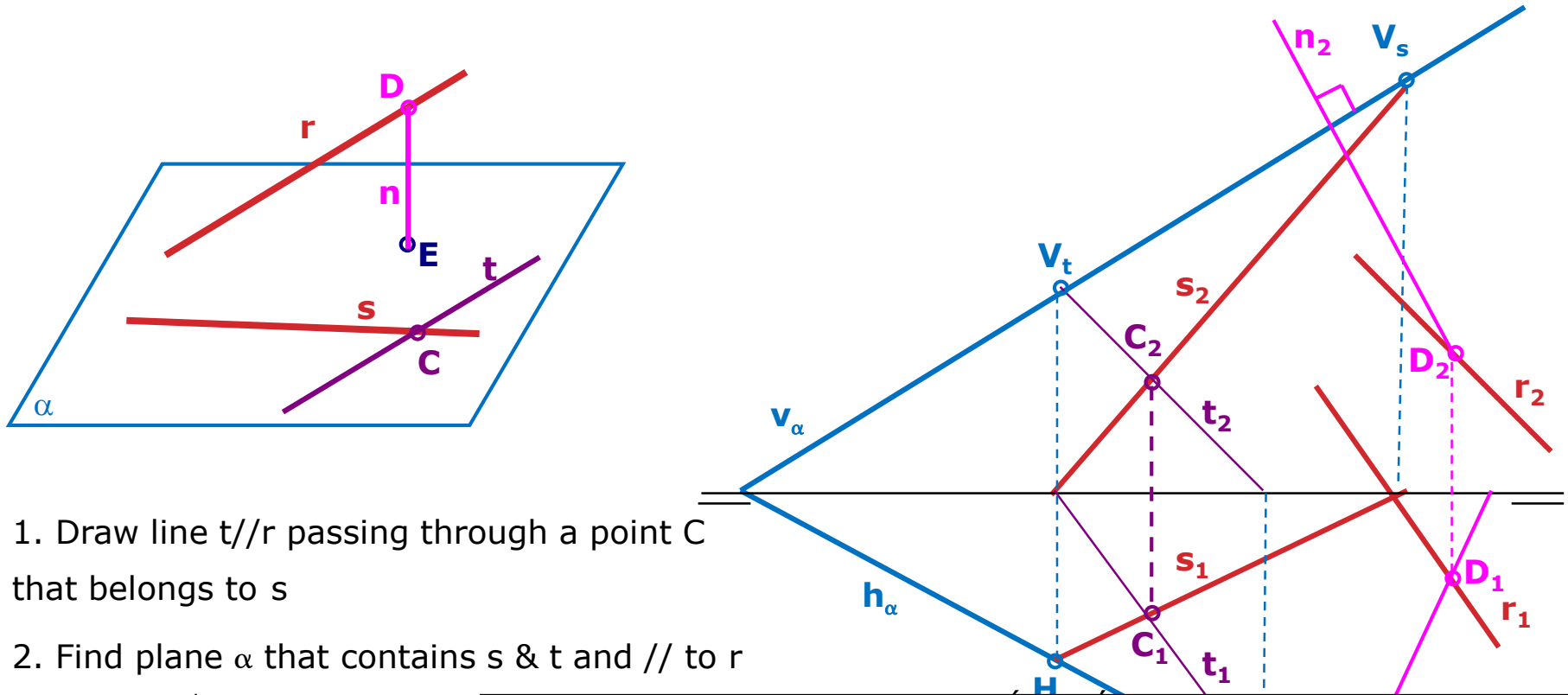
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r_1

Distance between two crossing lines



1. Draw line $t//r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

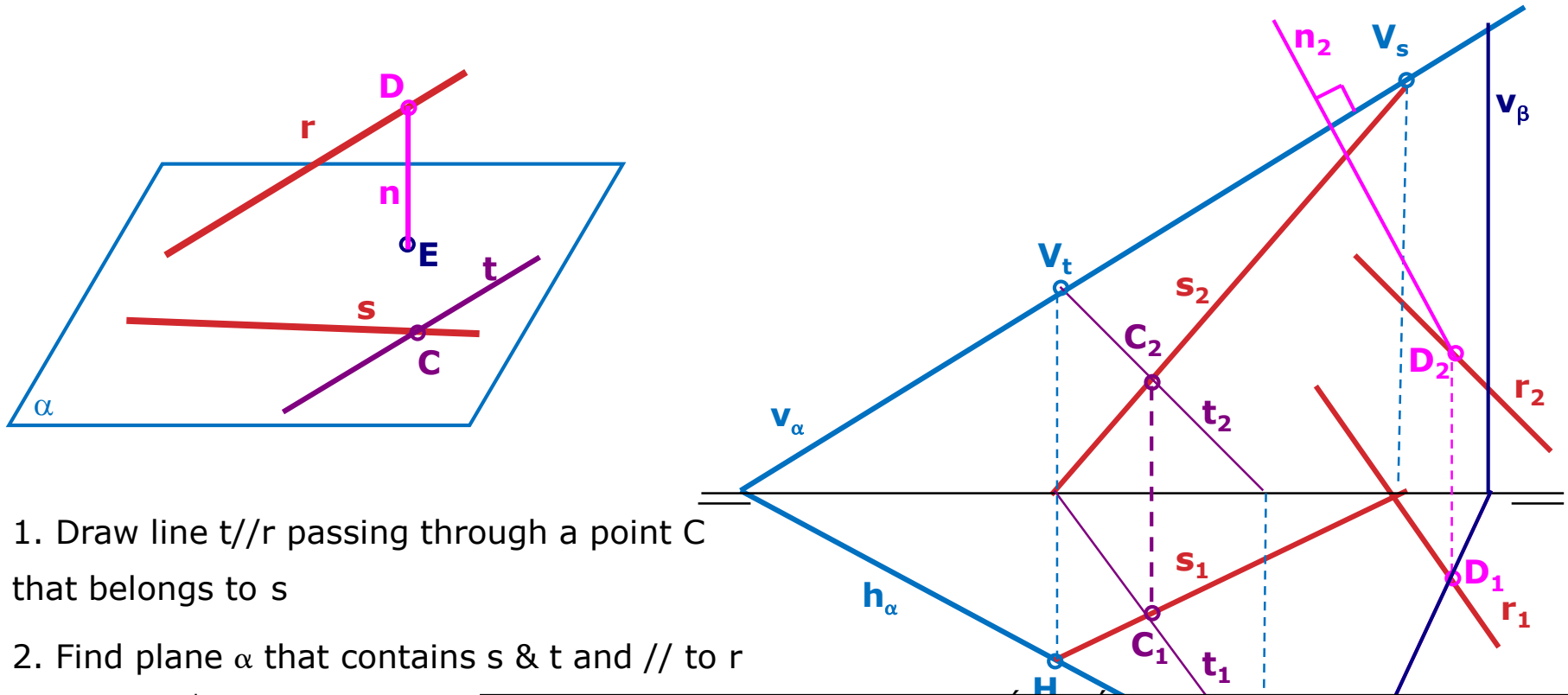
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$r // n_1$

Distance between two crossing lines



1. Draw line $t//r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

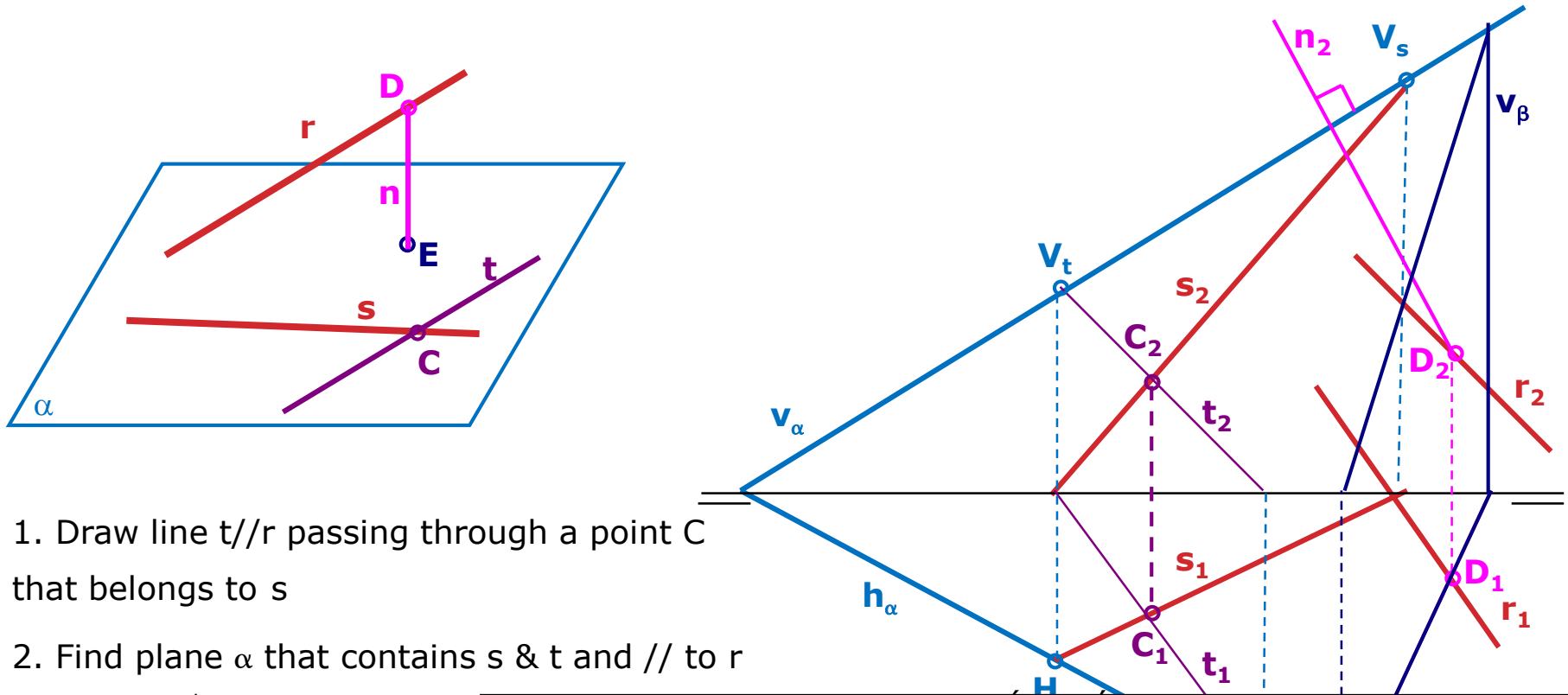
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$n_1 = n_2$

Distance between two crossing lines



1. Draw line $t//r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

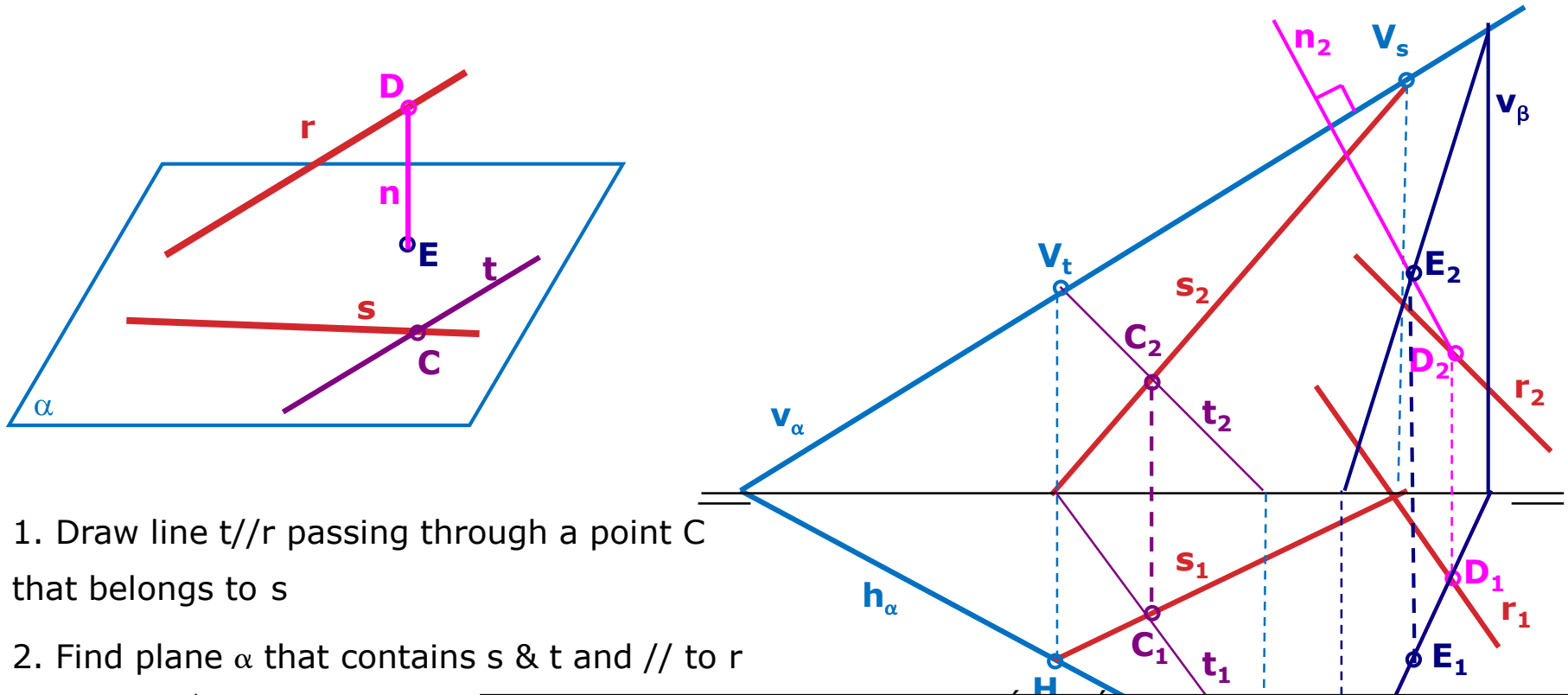
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$n_1 - n_2$

Distance between two crossing lines



1. Draw line $t // r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

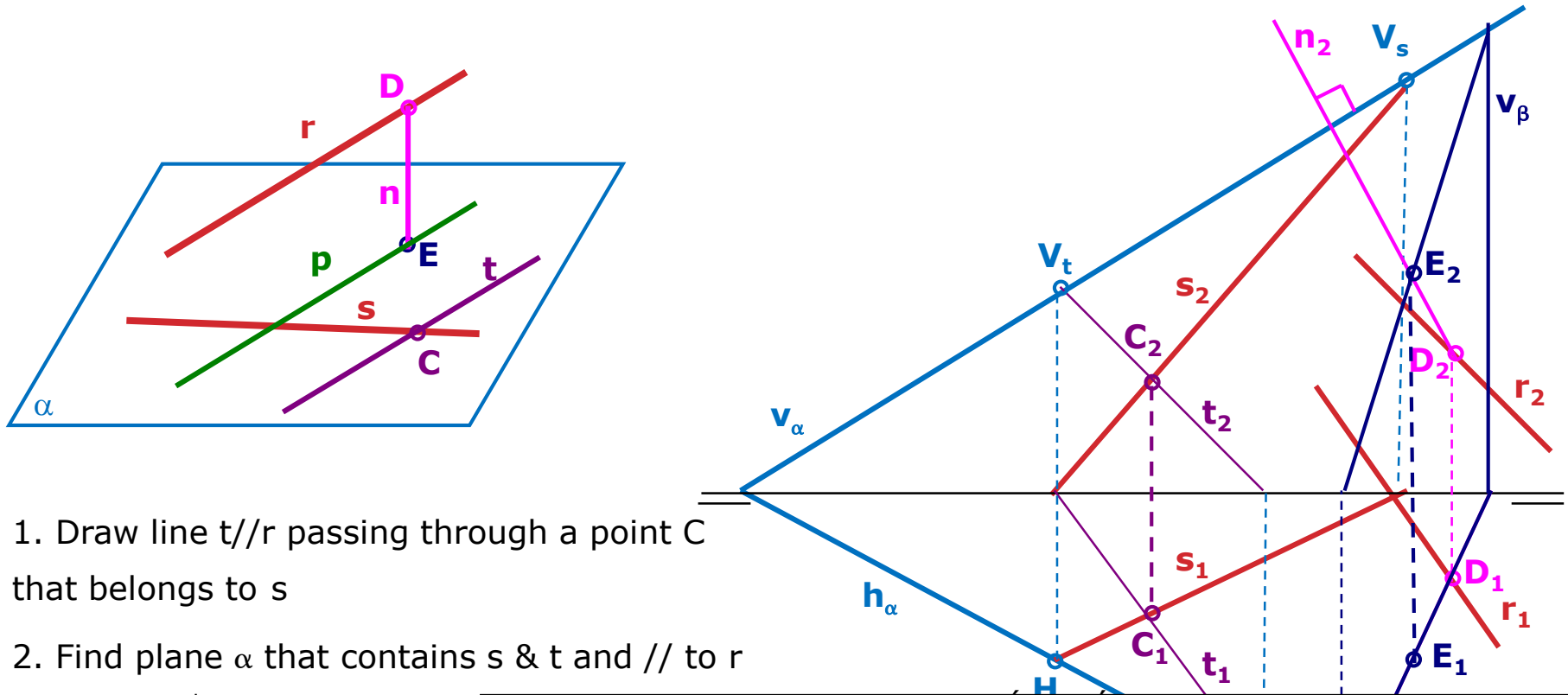
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$n_1 - n_2$

Distance between two crossing lines



1. Draw line $t // r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

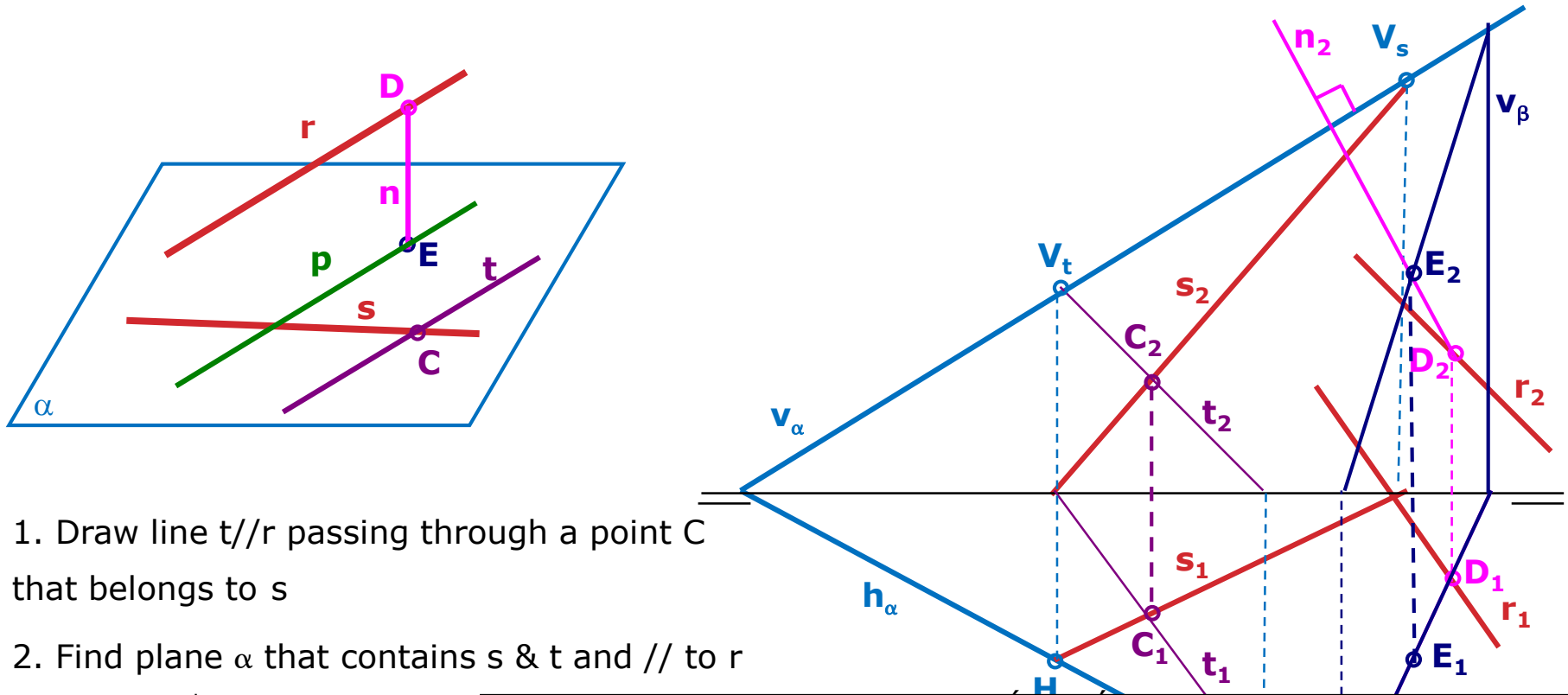
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$n_1 - n_2$

Distance between two crossing lines



1. Draw line $t // r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

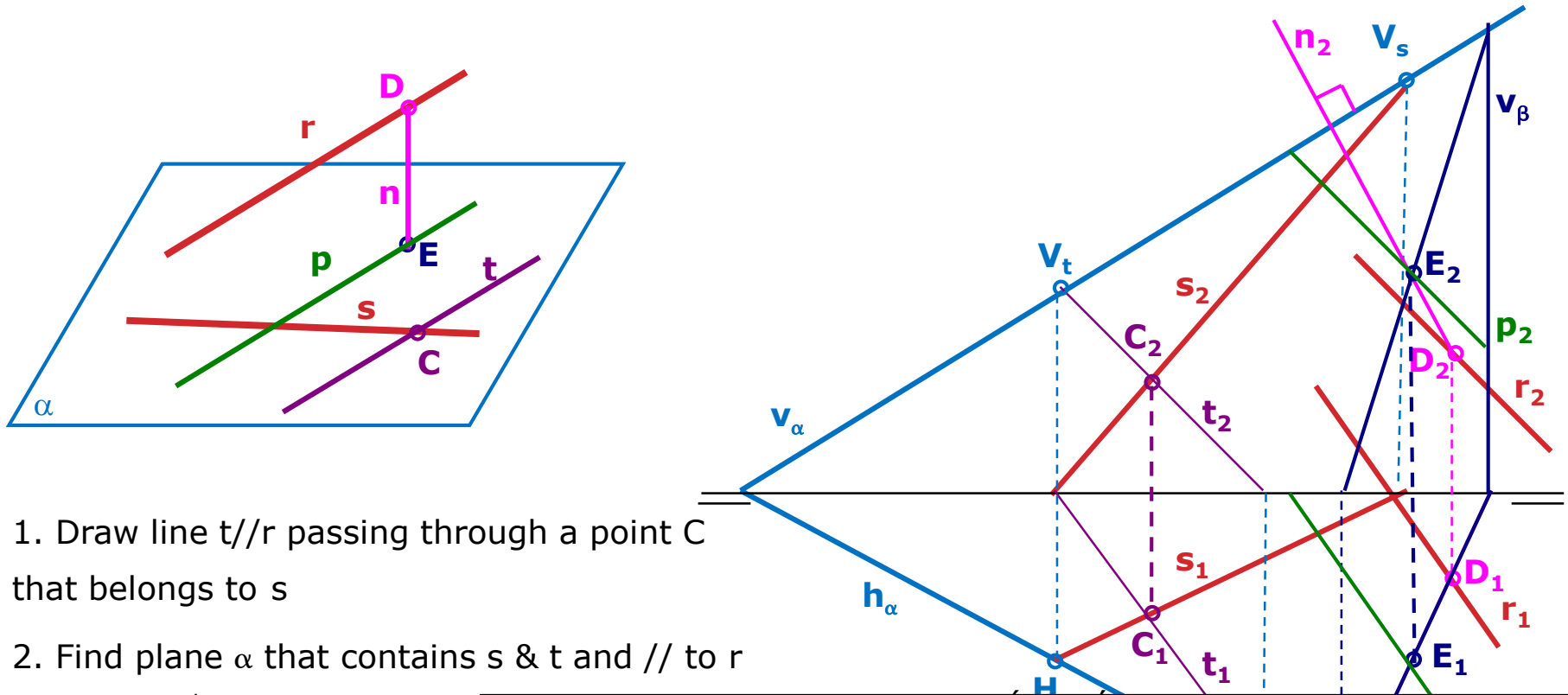
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$n_1 - n_2$

Distance between two crossing lines



1. Draw line $t // r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

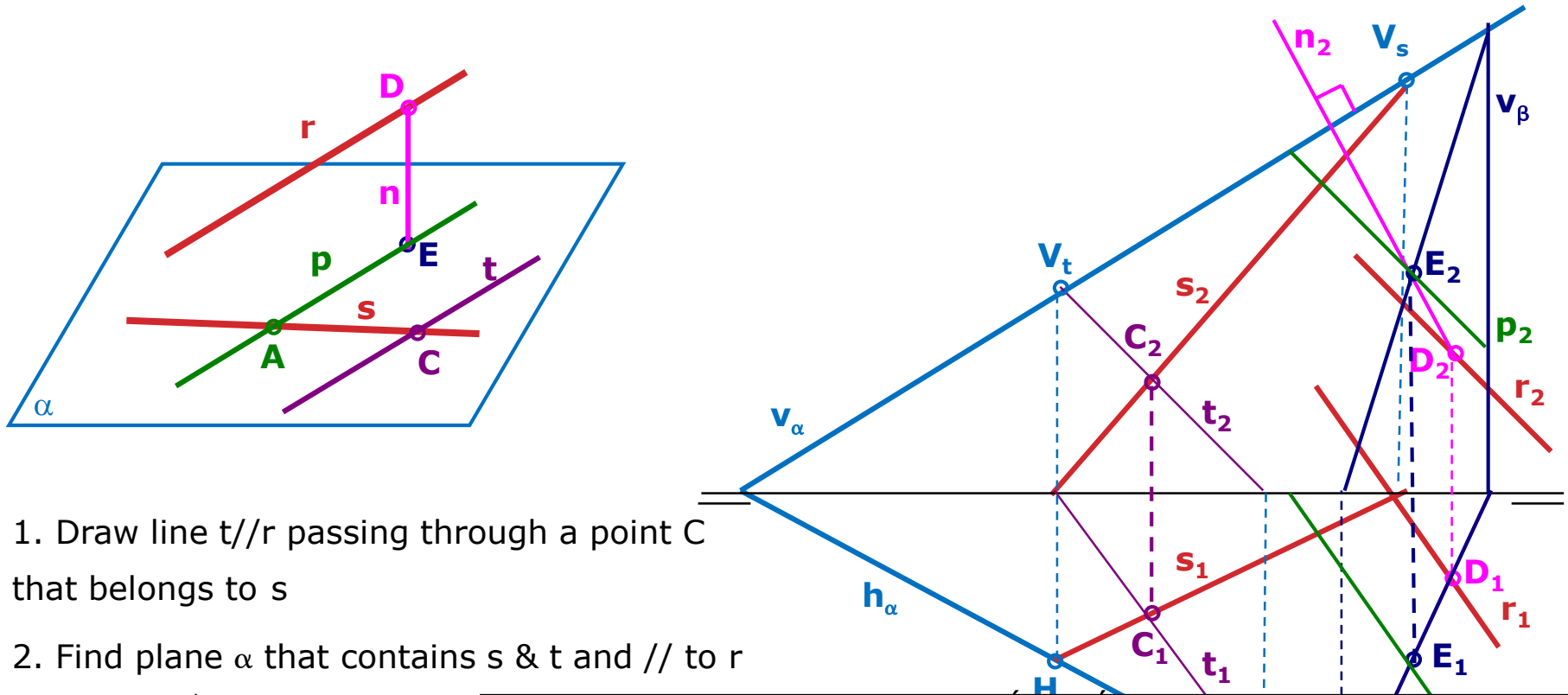
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$n_1 = n_2$

Distance between two crossing lines



1. Draw line $t \parallel r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and \parallel to r

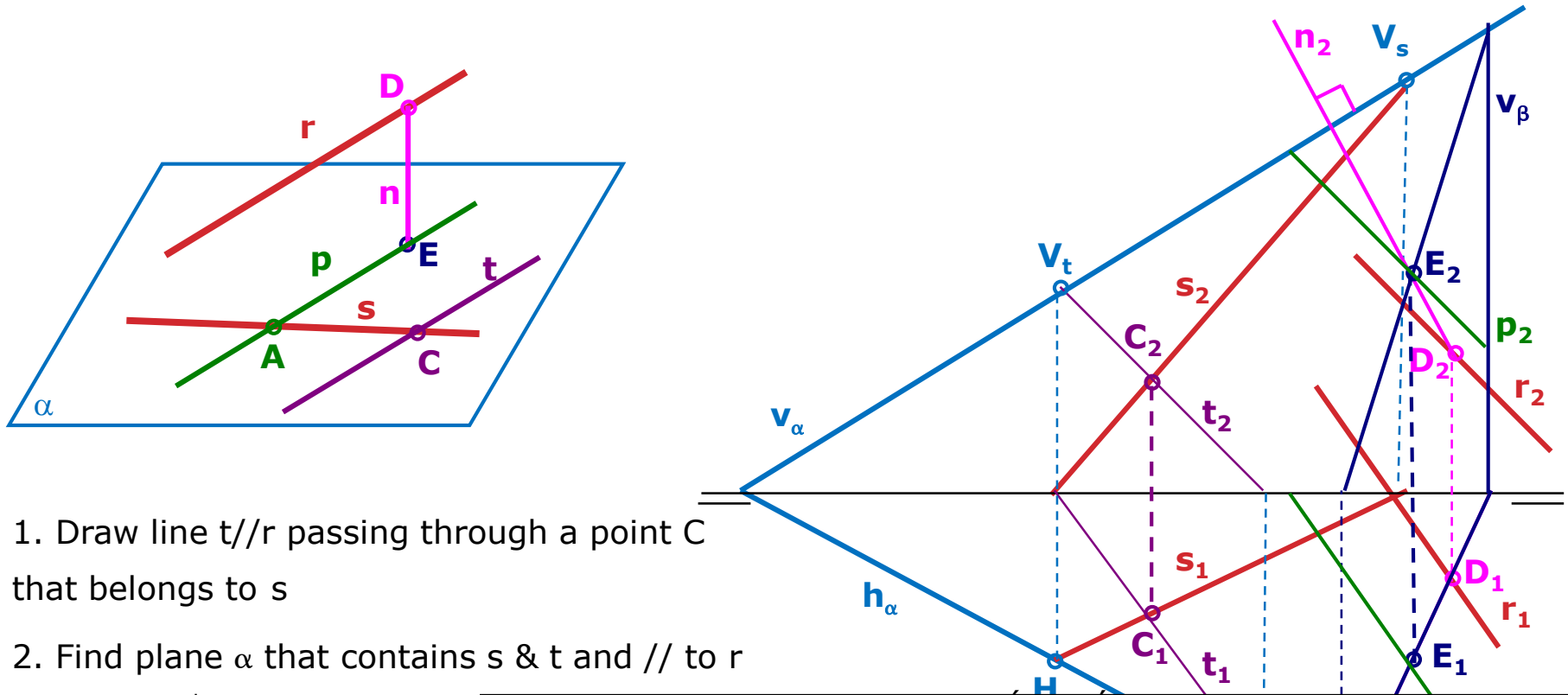
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$\vec{n}_1 = \vec{n}_2$

Distance between two crossing lines



1. Draw line $t \parallel r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and \parallel to r

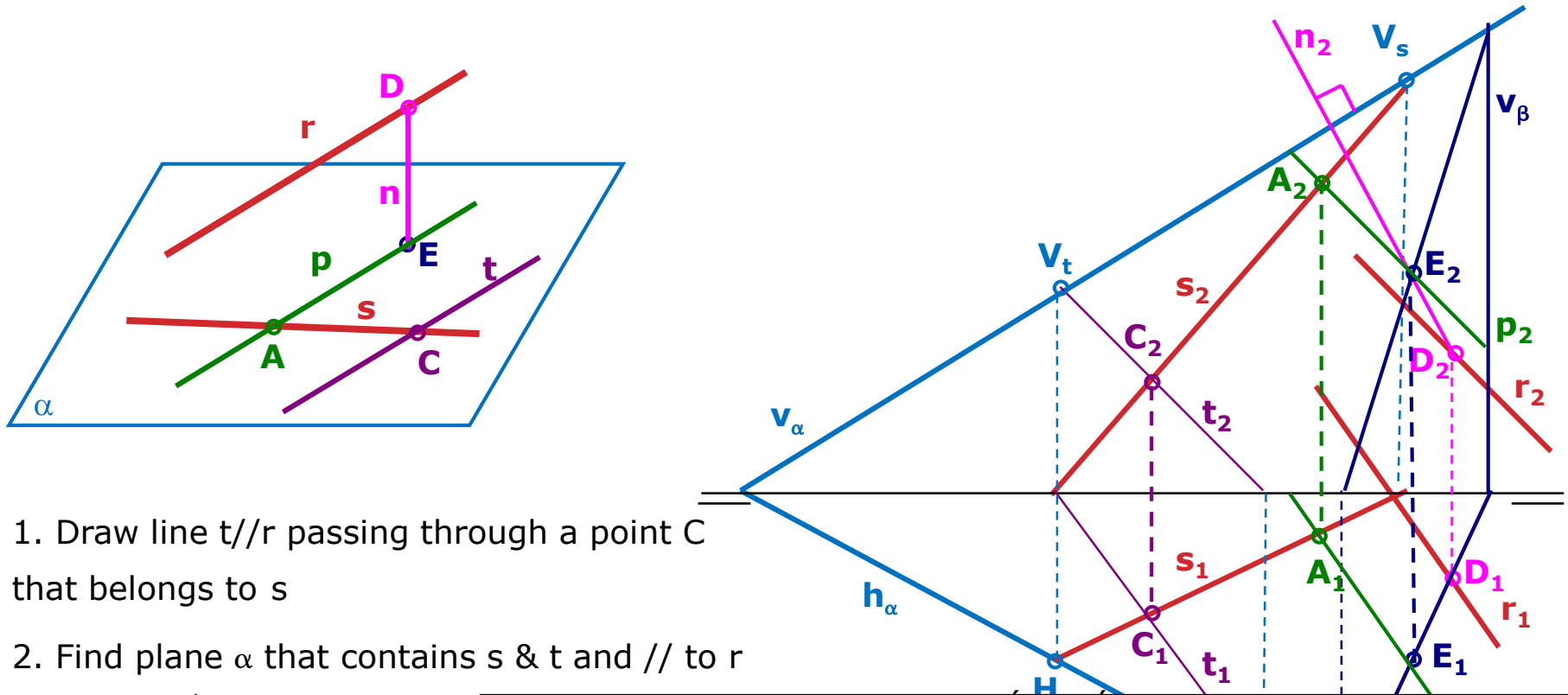
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$\vec{n}_1 = \vec{n}_2$

Distance between two crossing lines



1. Draw line $t//r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

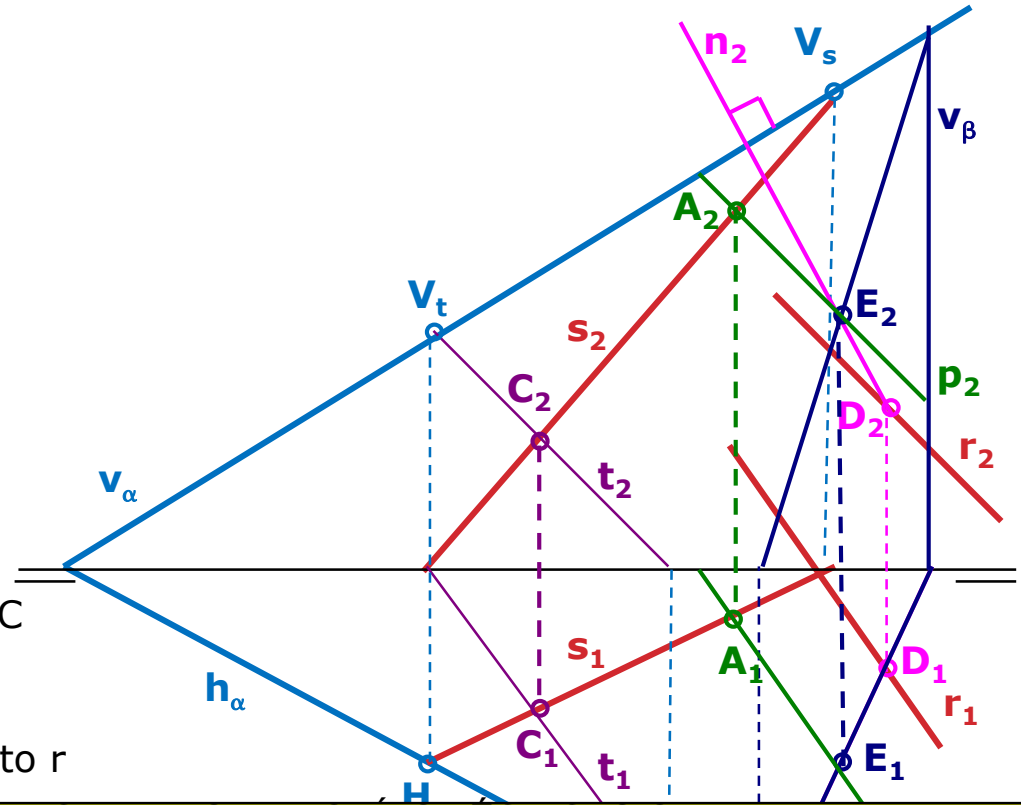
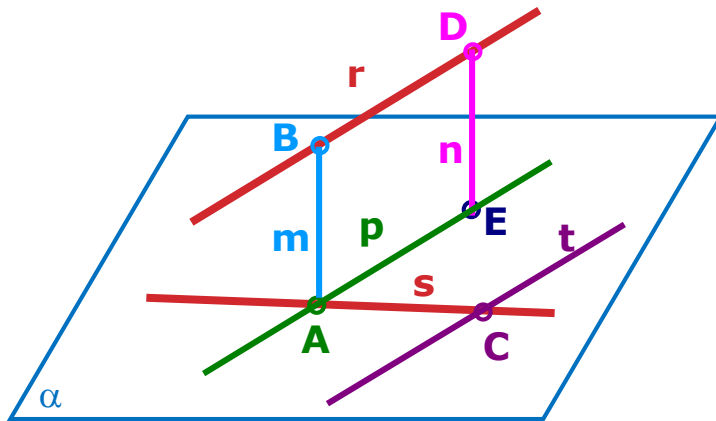
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$\vec{n}_1 = \vec{n}_\beta$

Distance between two crossing lines



1. Draw line $t // r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

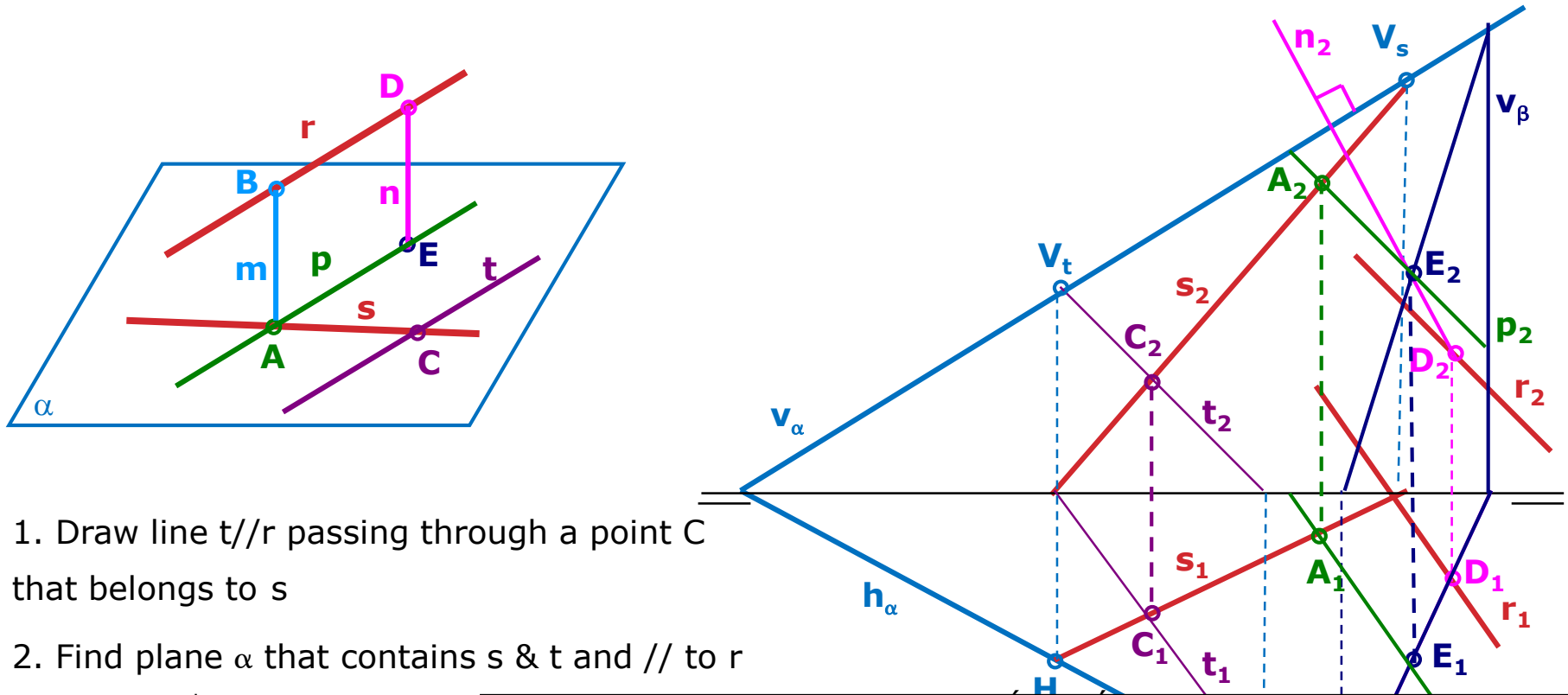
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$\angle \pi_1 - \pi_2$

Distance between two crossing lines



1. Draw line $t//r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

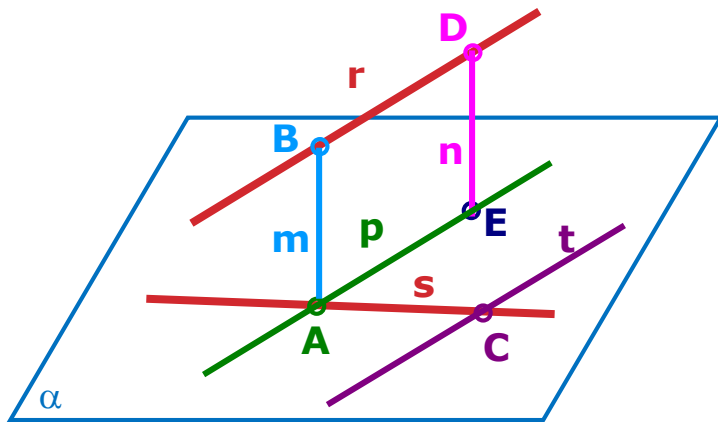
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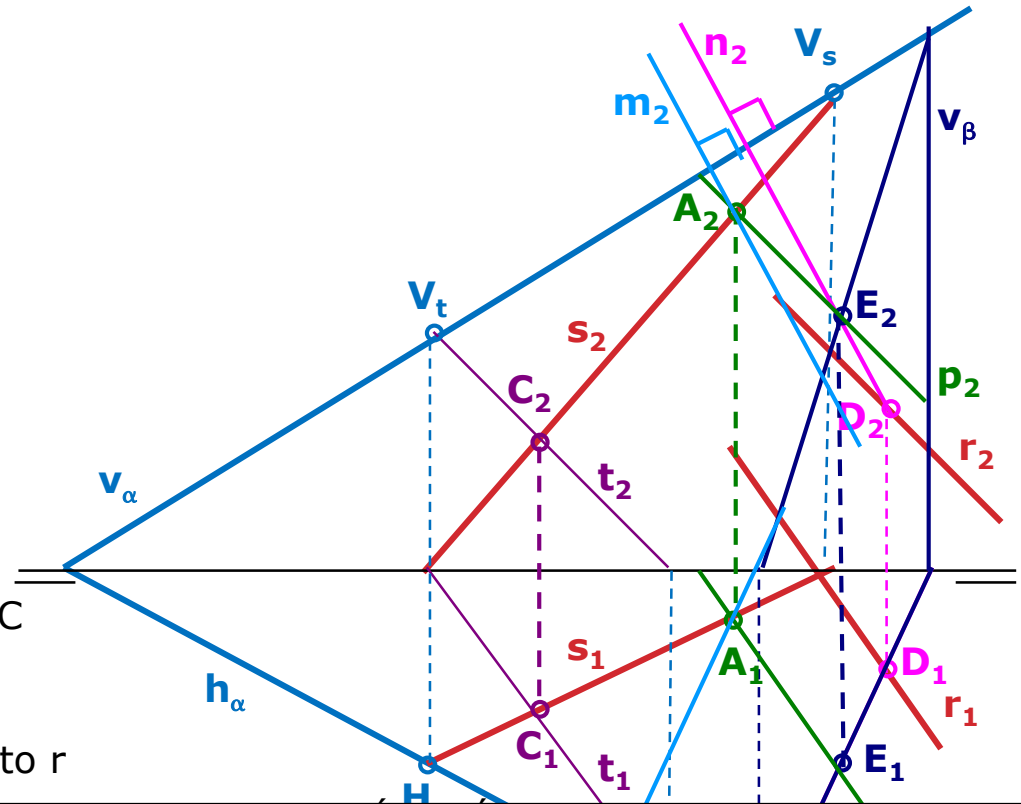
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7. Draw $m \perp r$ through A and find $m \cap r = B$

Distance between two crossing lines



1. Draw line $t // r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r



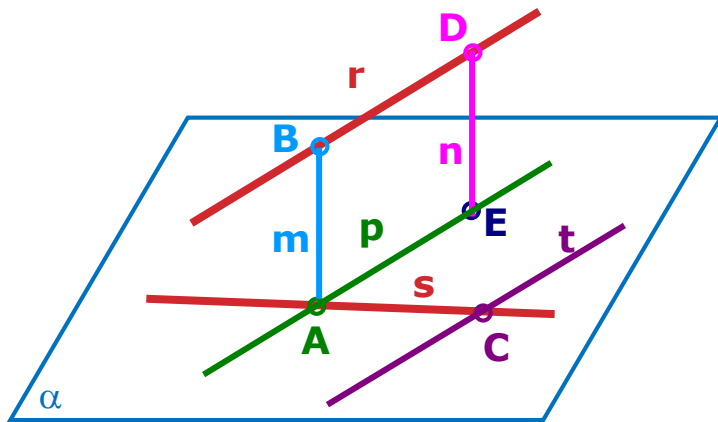
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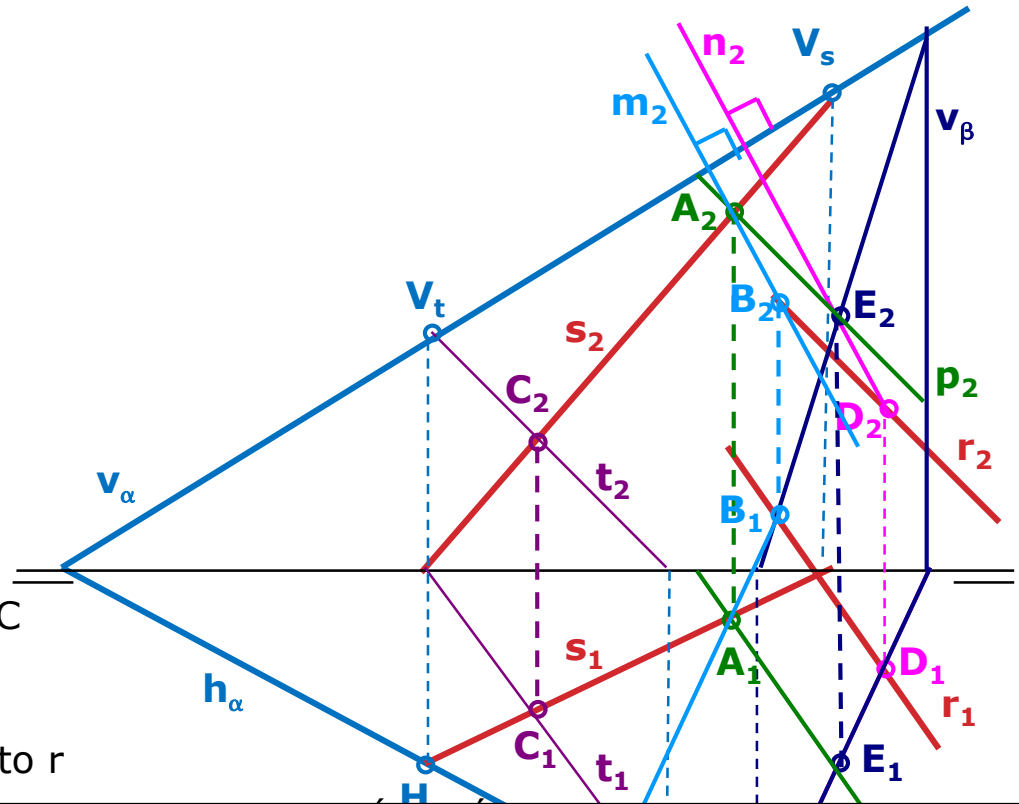
7. Draw $m \perp t$ through A and find $m \cap r = B$

$l \perp n_1 - n_2$

Distance between two crossing lines



1. Draw line $t // r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r



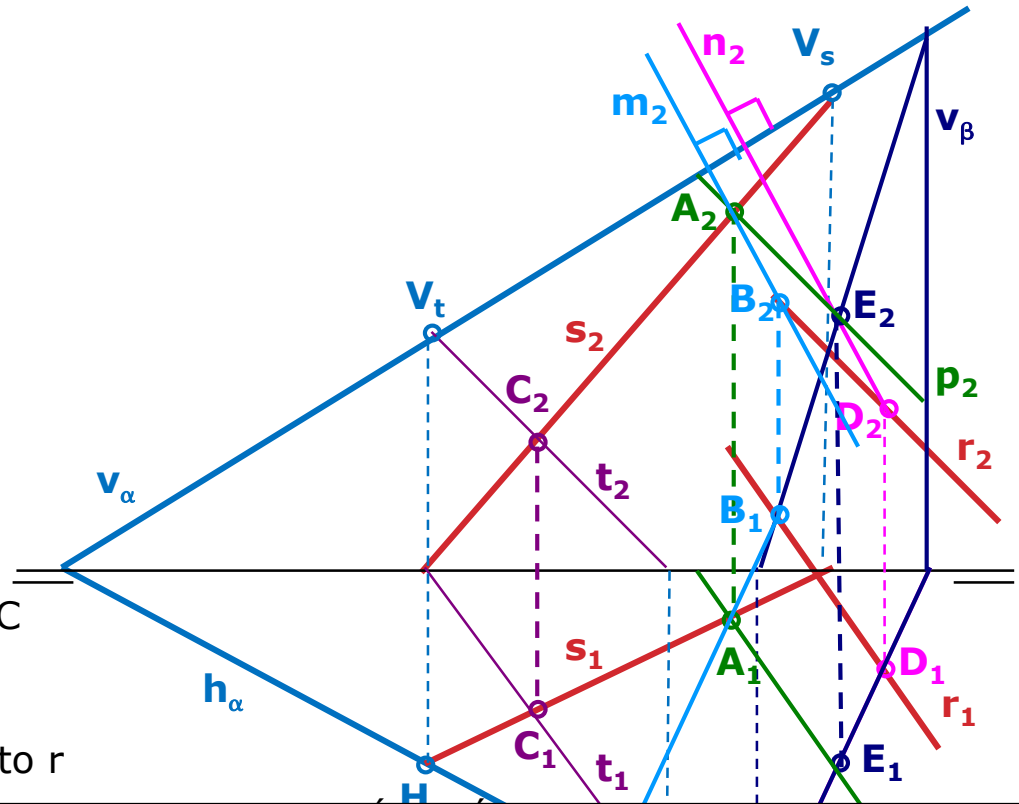
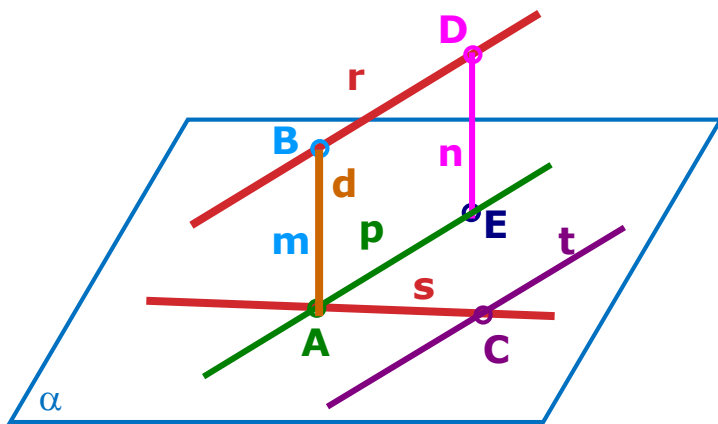
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7. Draw $m \perp t$ through A and find $m \cap r = B$

Distance between two crossing lines



1. Draw line $t//r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r

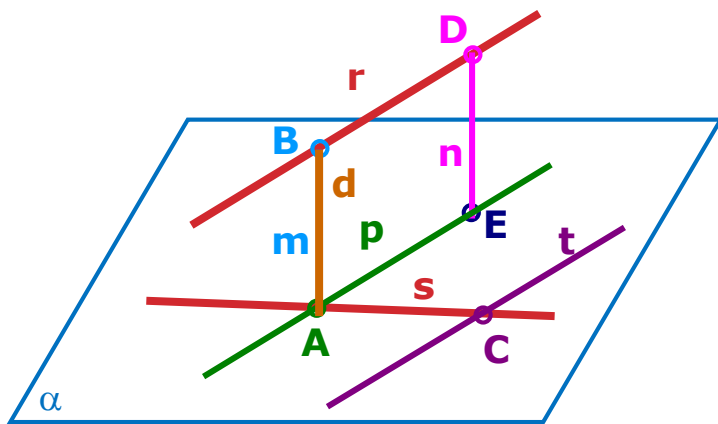
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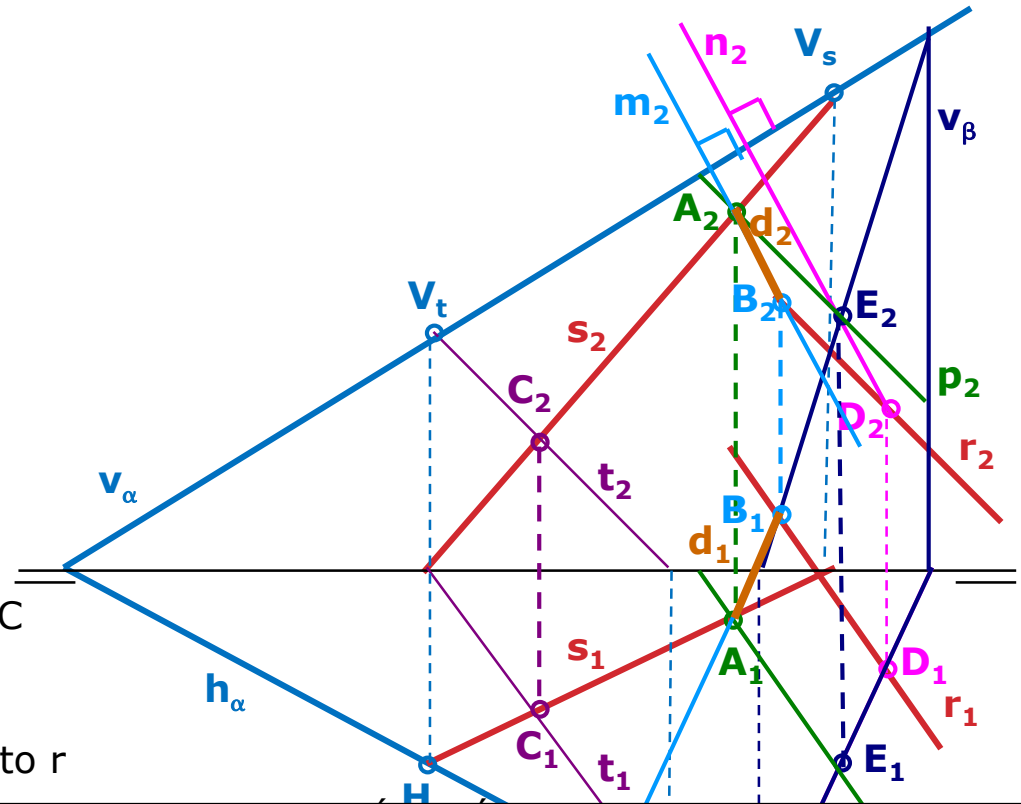
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7. Draw $m \perp t$ through A and find $m \cap r = B$

Distance between two crossing lines



1. Draw line $t//r$ passing through a point C that belongs to s
2. Find plane α that contains s & t and $//$ to r



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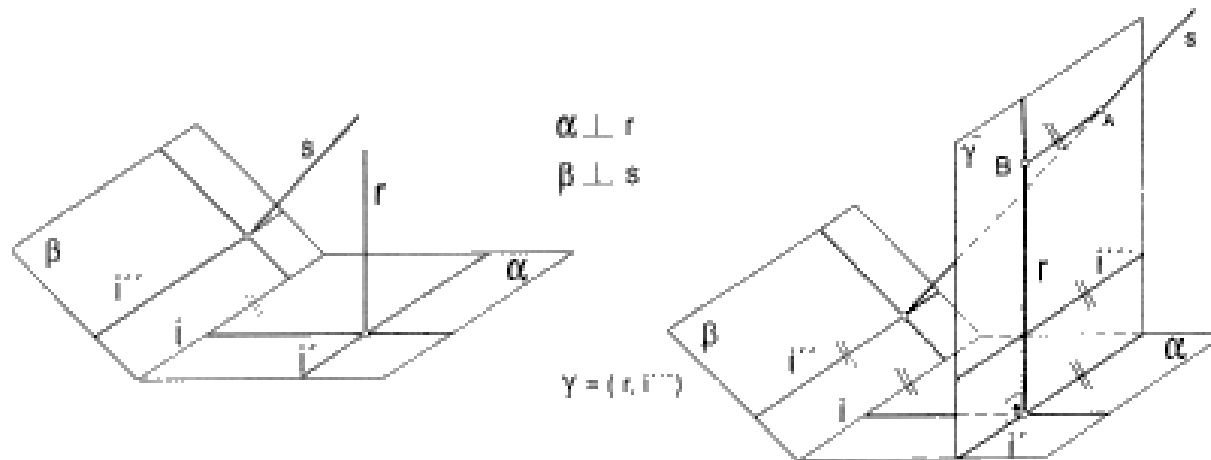
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7. Draw $m \perp t$ through A and find $m \cap r = B$

Distance between two crossing lines I

□ First method



1. Draw plane $\alpha \perp r$ and plane $\beta \perp s$.
2. Find the intersection of α and $\beta \Rightarrow$ line i .
3. Find plane γ defined by line r and line i' .

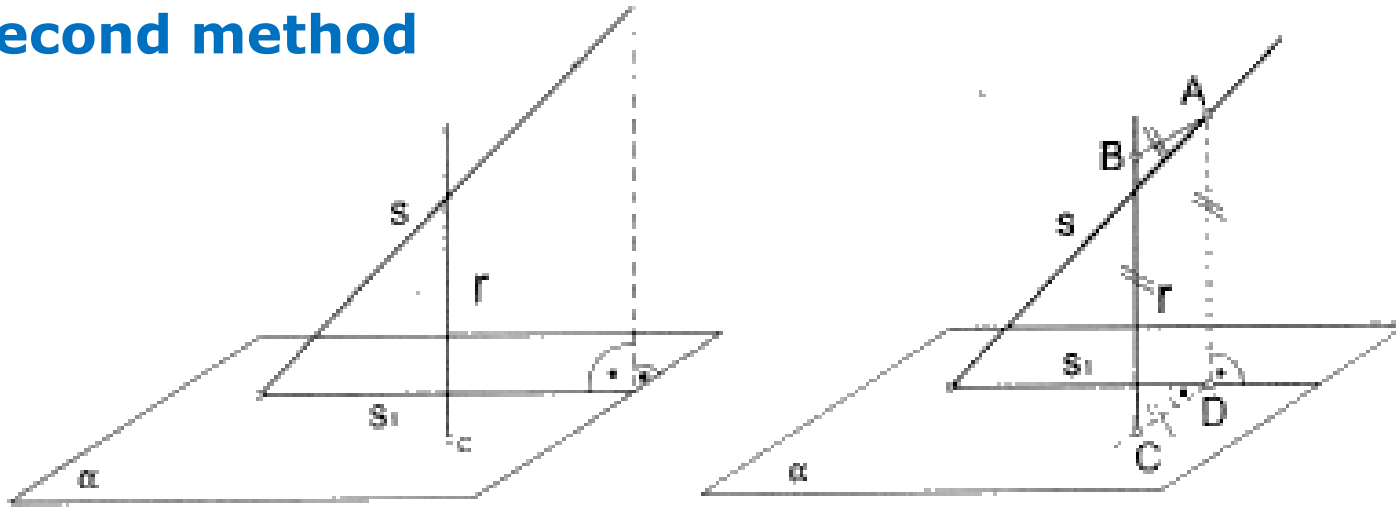
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Distance between two crossing lines II

□ Second method



$\alpha \perp r$

1. Draw plane $\alpha \perp$ to line r and passes through point C .
2. Find orthogonal projection s_1 of the line s over plane α .
3. Draw a line \perp to s_1 and passes through C .

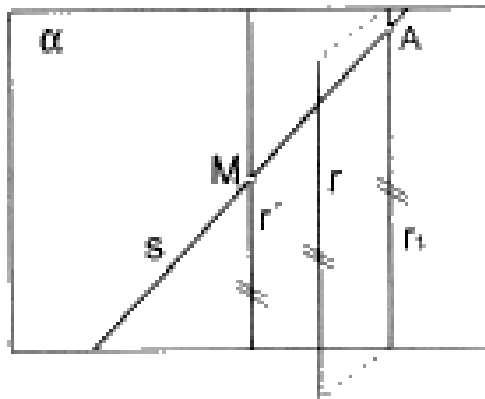
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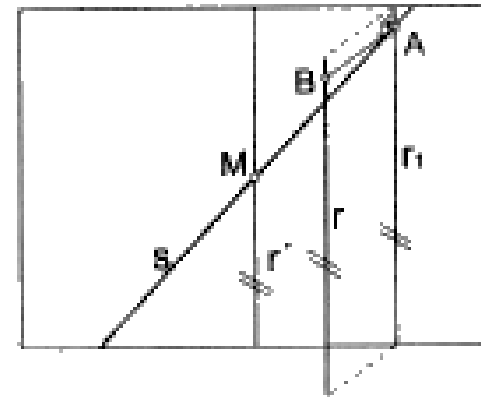
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Distance between two crossing lines III

□ Third method



$\alpha = [s, r']$



1. Draw line $r' //$ to line r and passes through a point on line s .
2. Find plane α that contains line r' and line s .
3. Find the orthogonal projection of r over the plane $\alpha \Rightarrow r_1$.

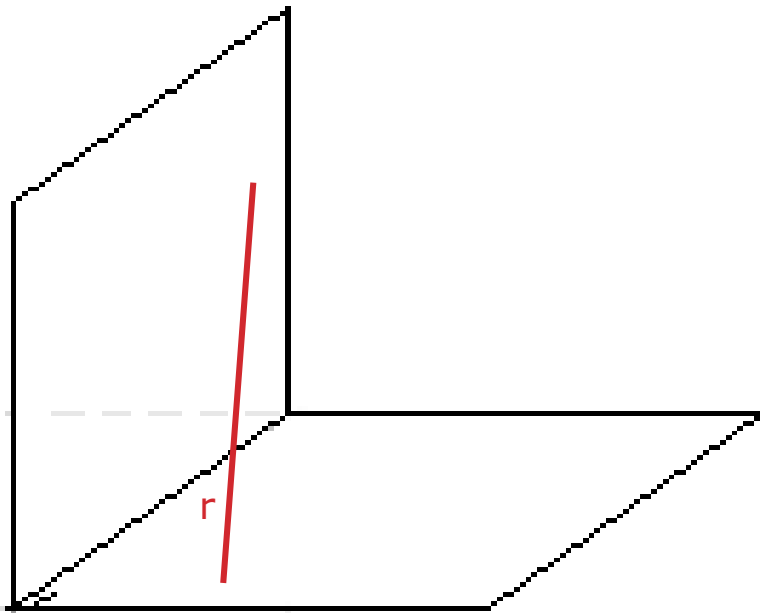
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Angles of a line with respect to the projection planes I

- By means of the fold line method



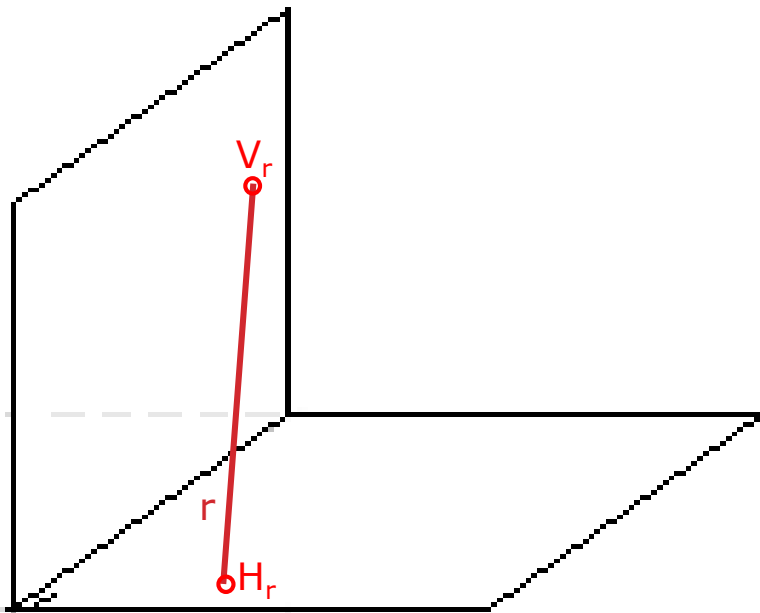
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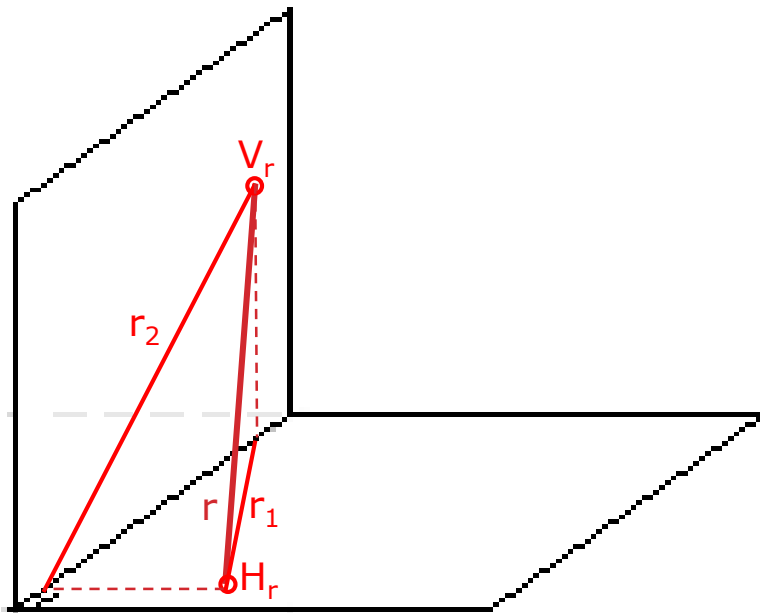
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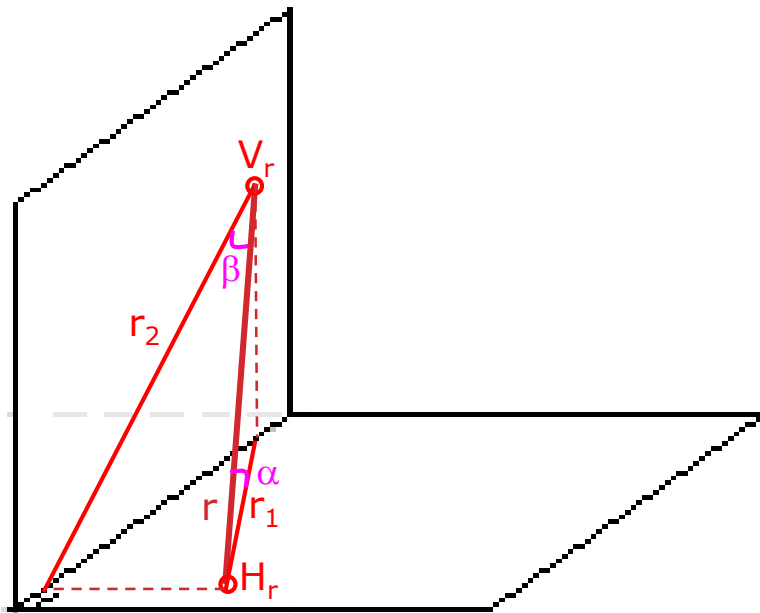
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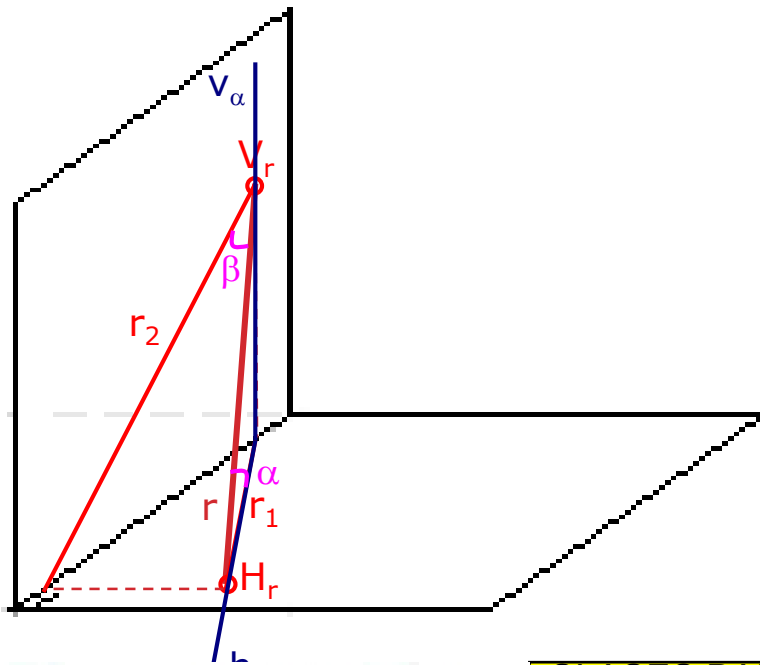
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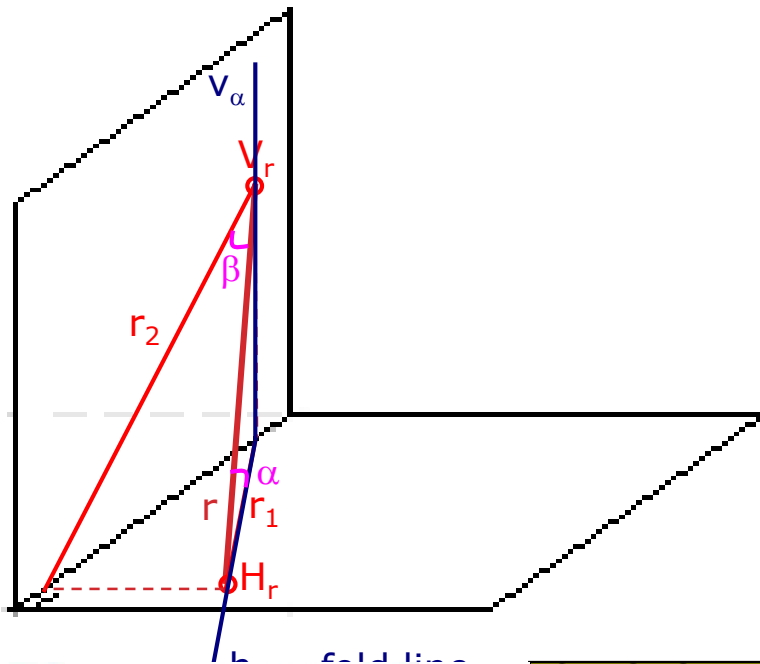
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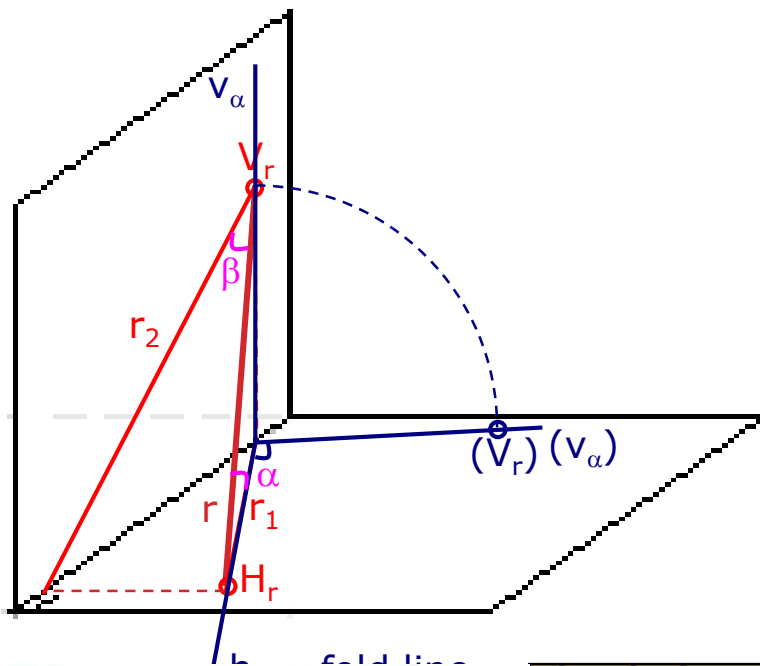
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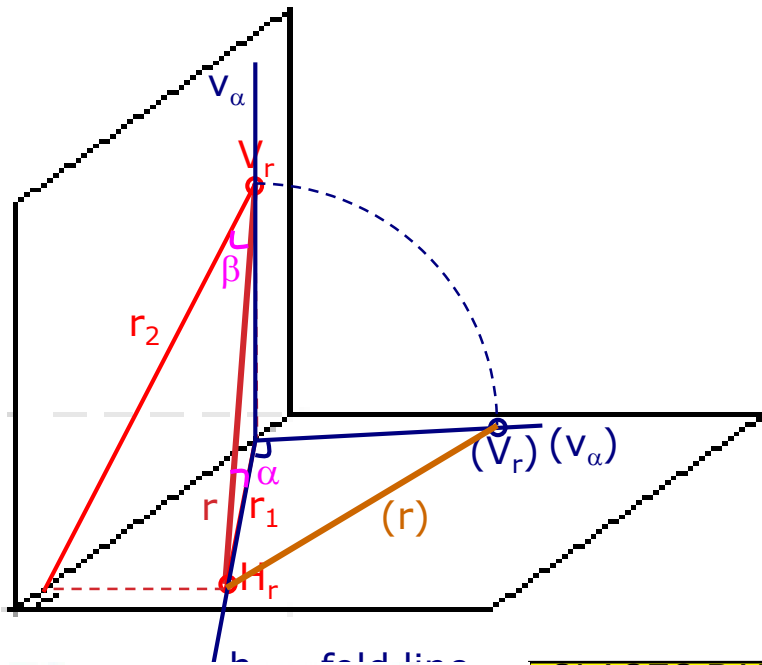
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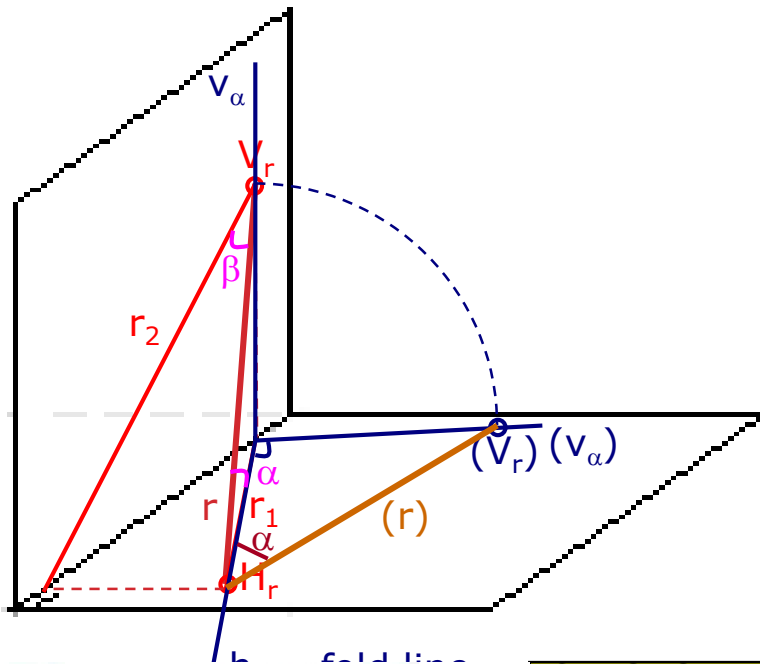
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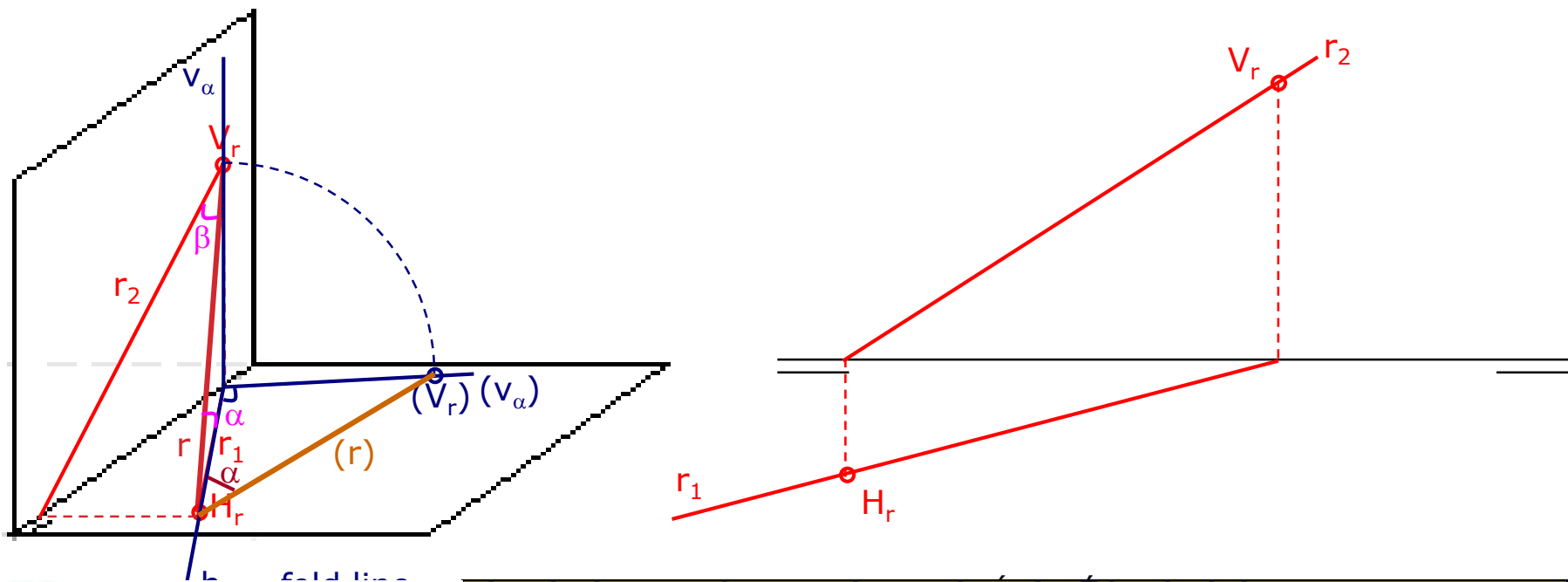
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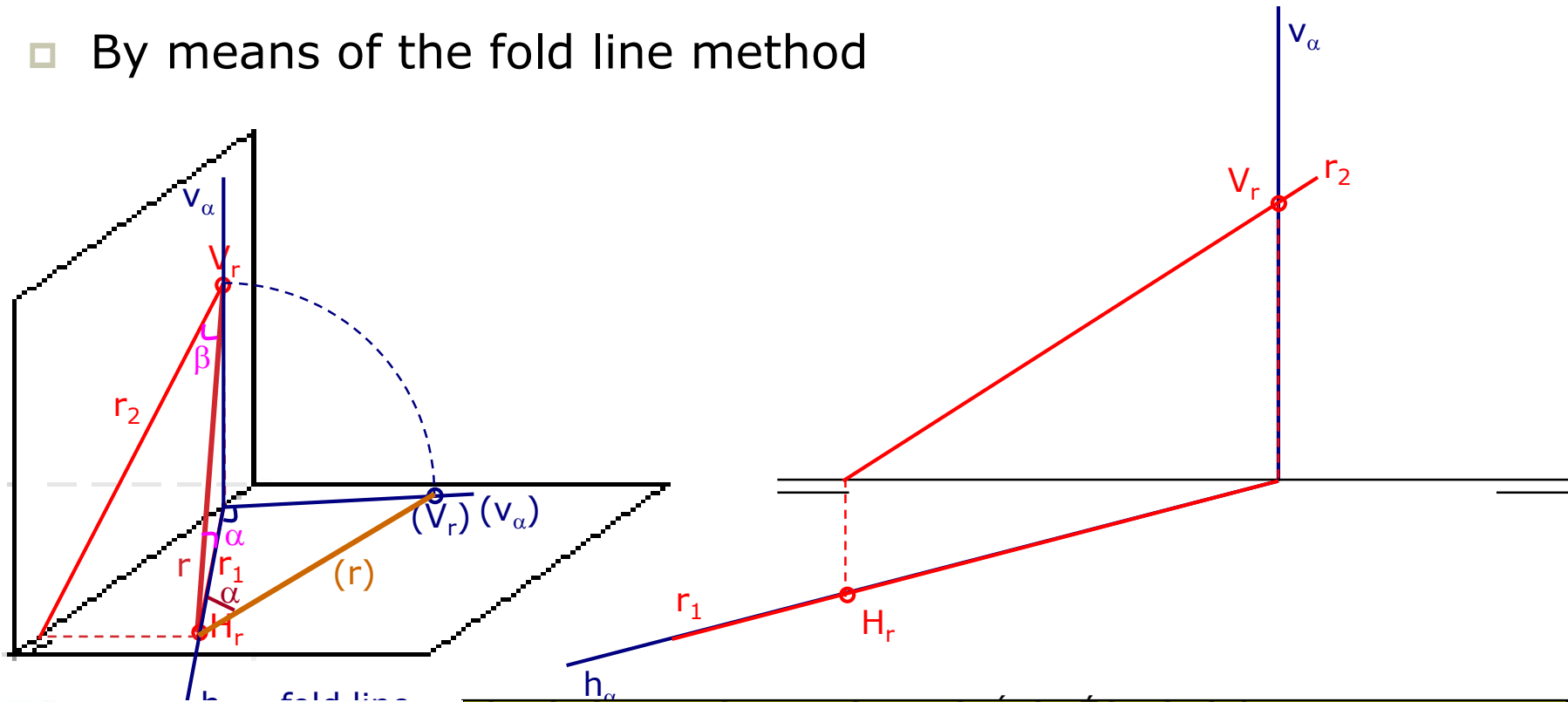
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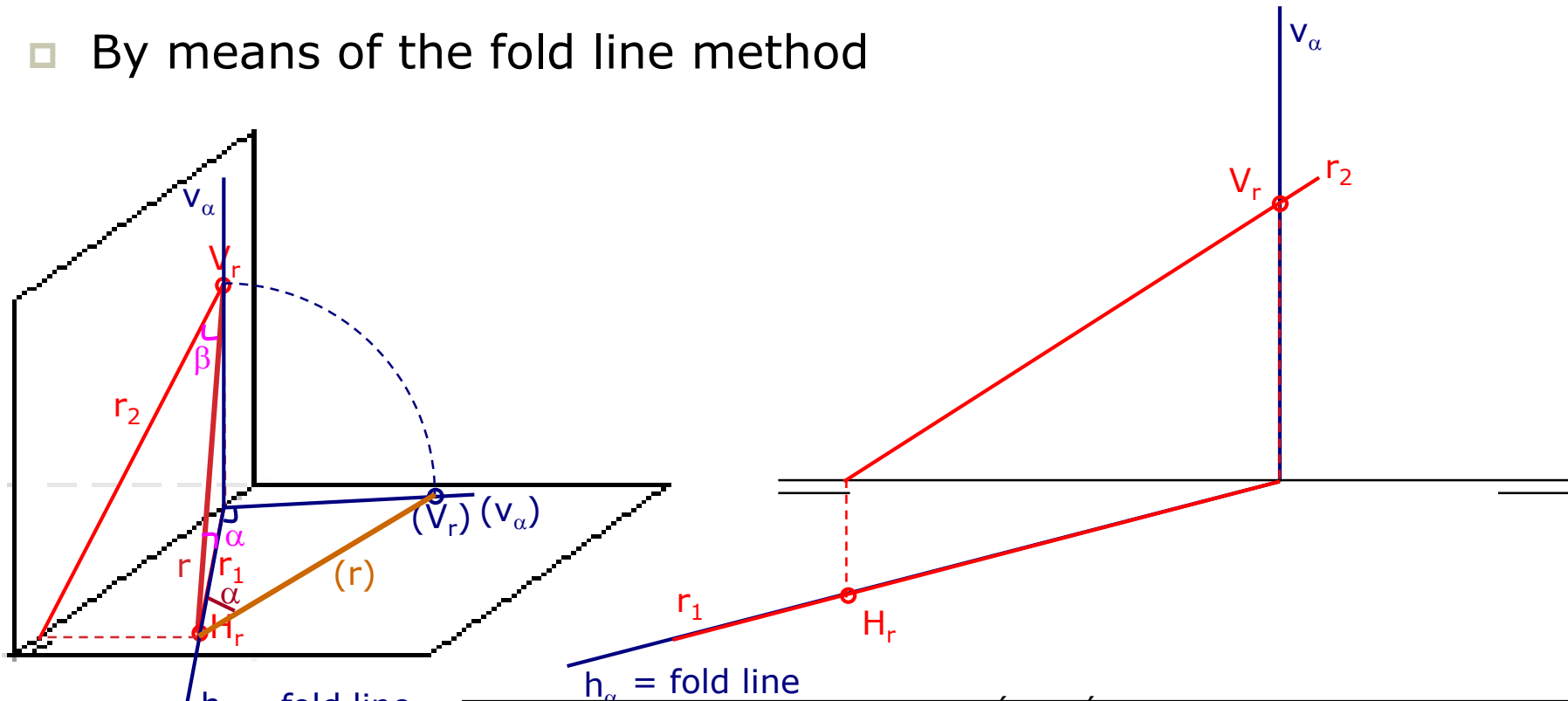
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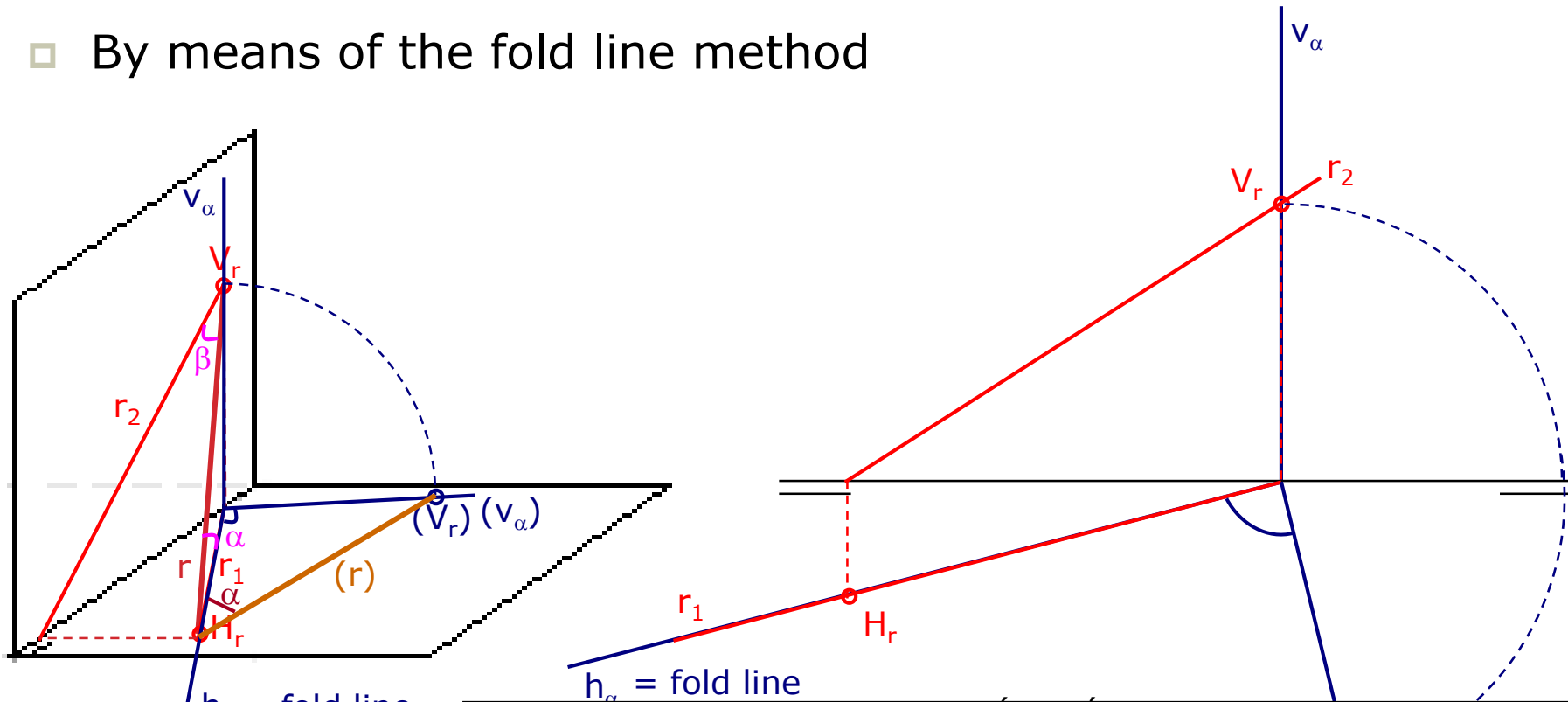
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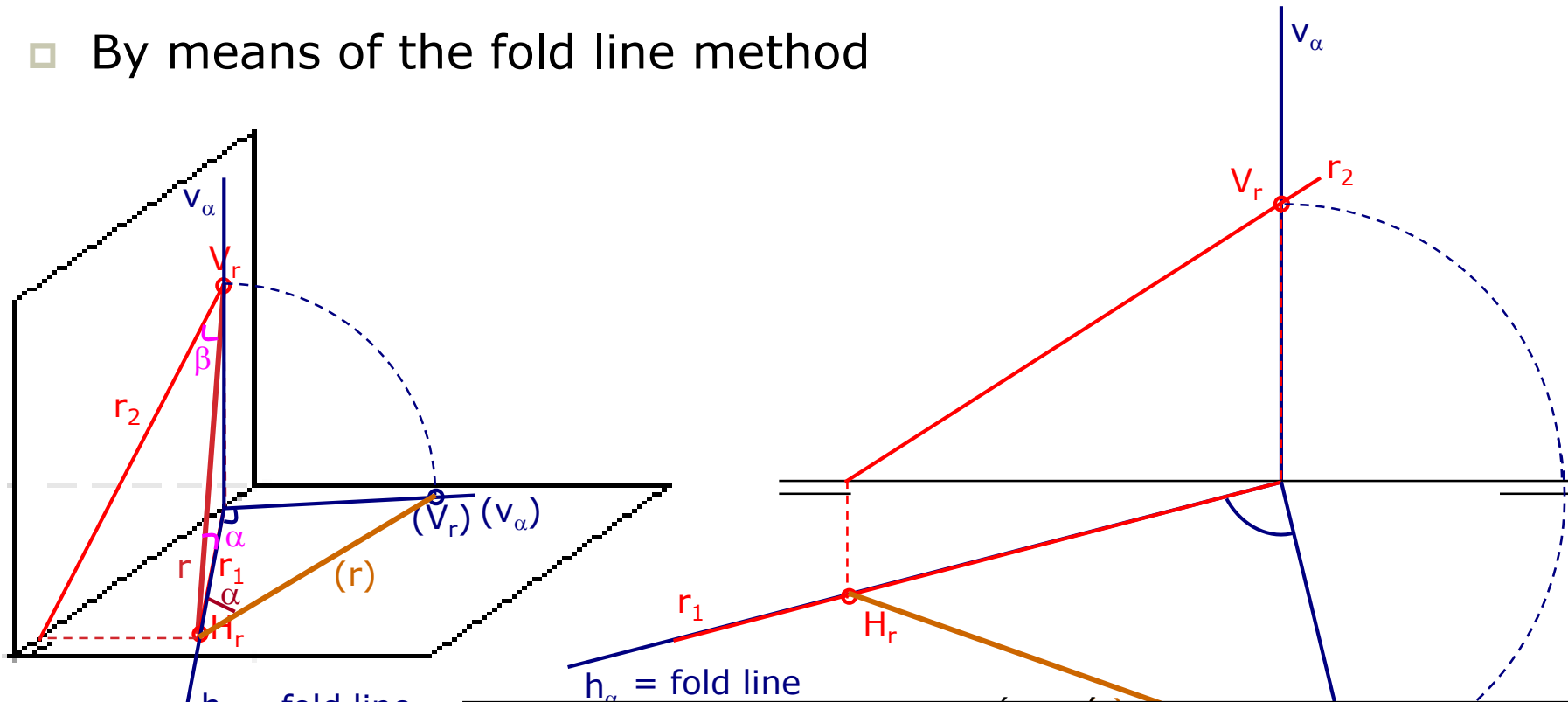
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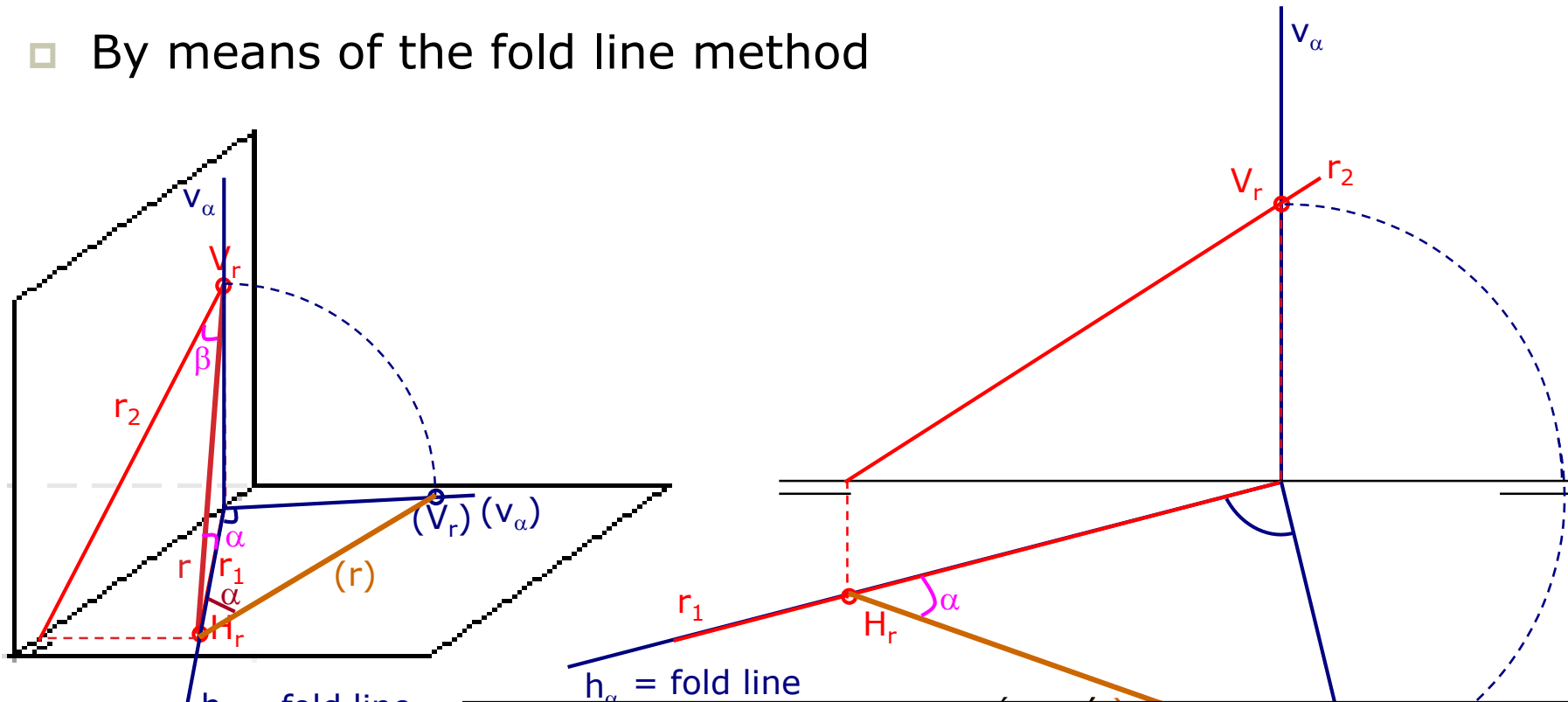
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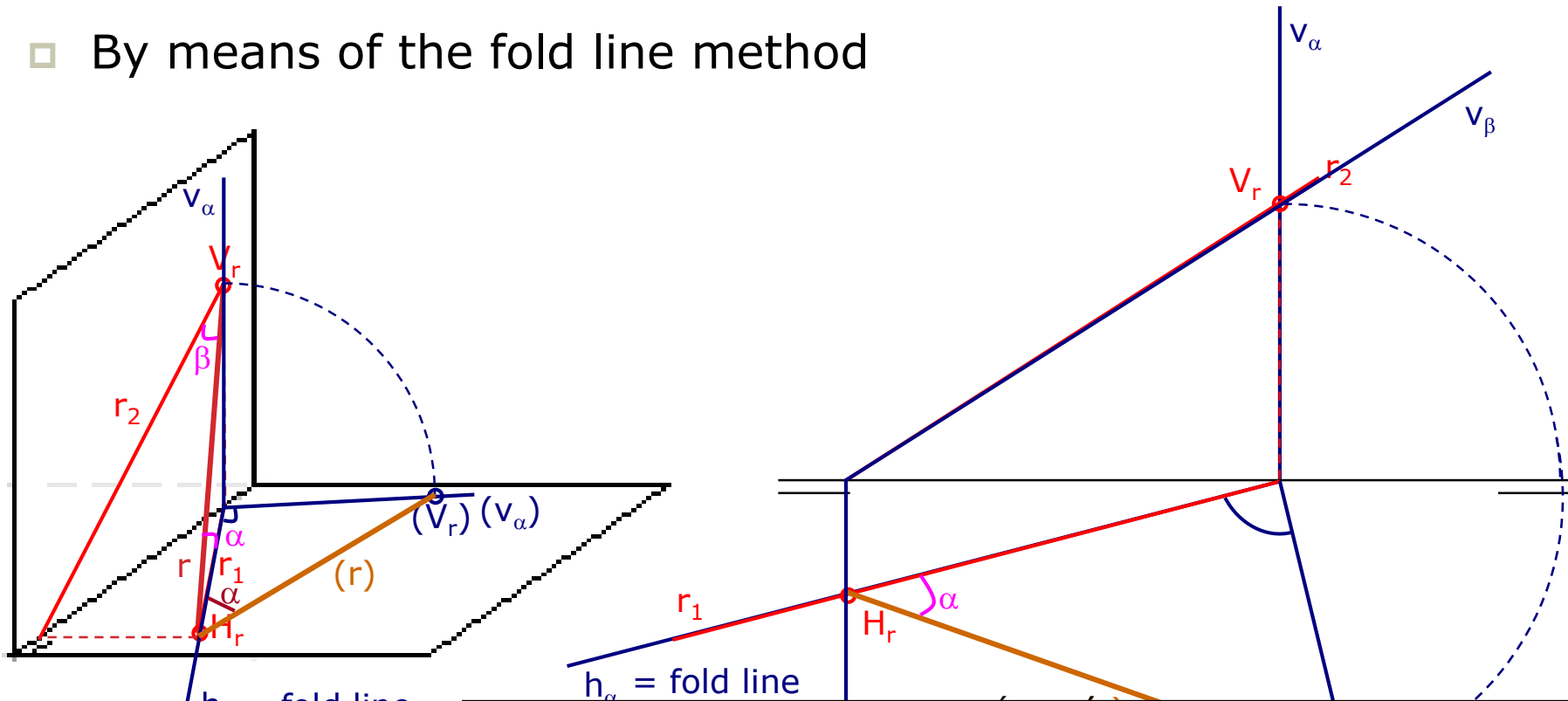
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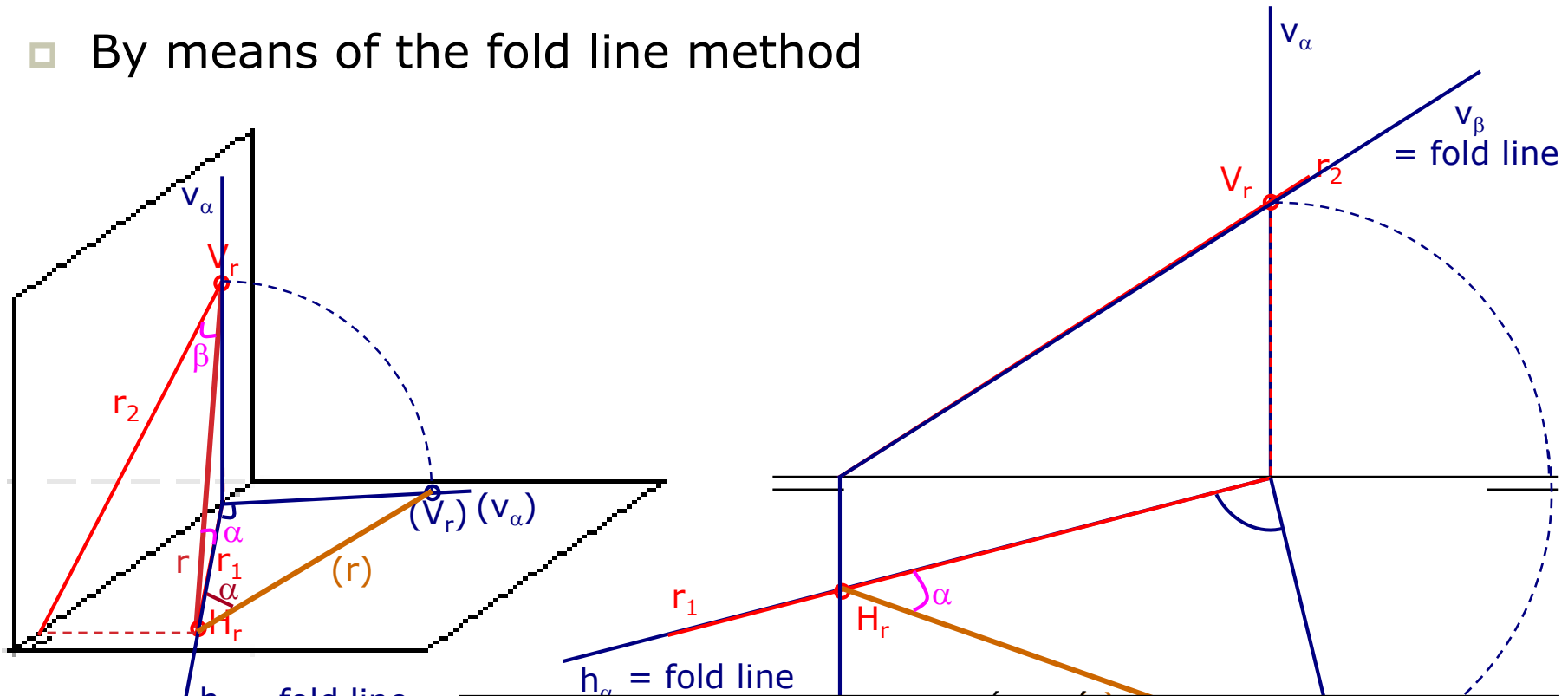
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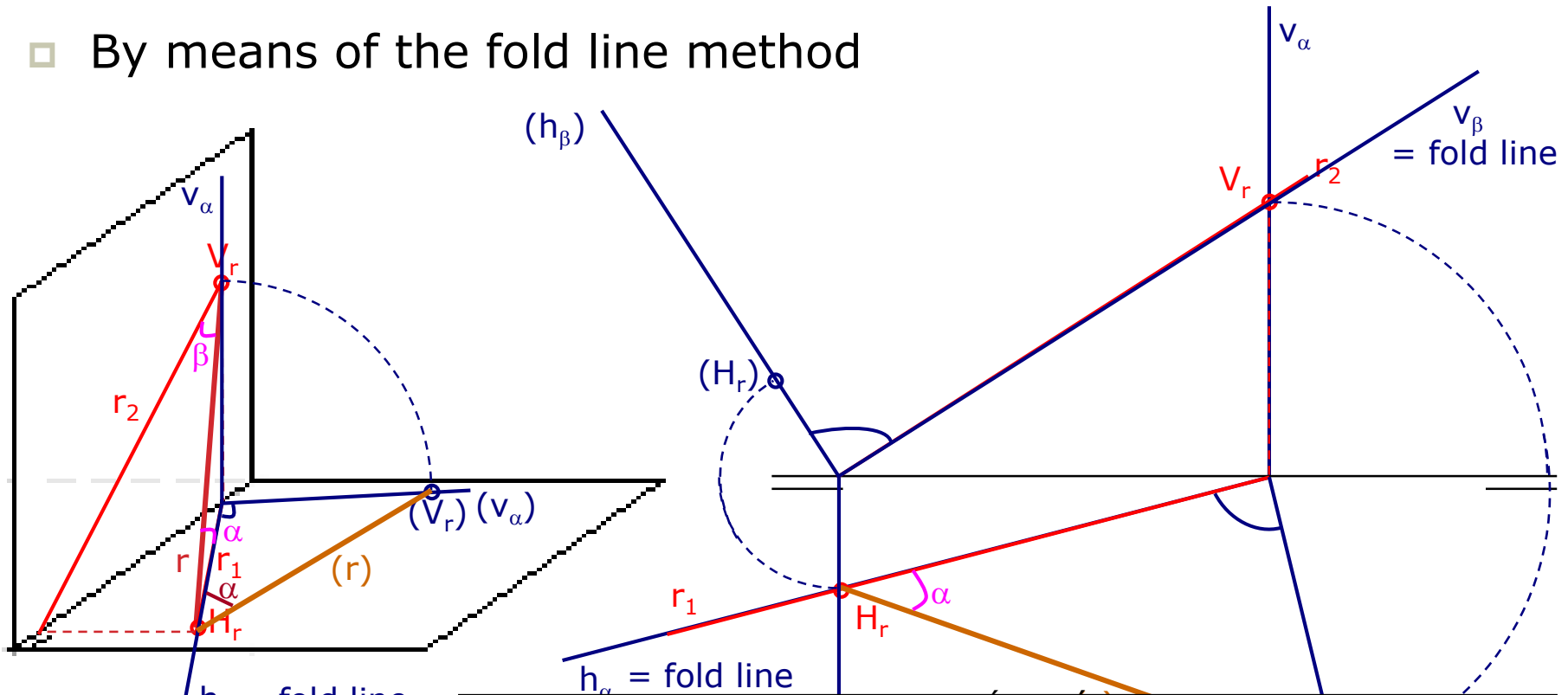
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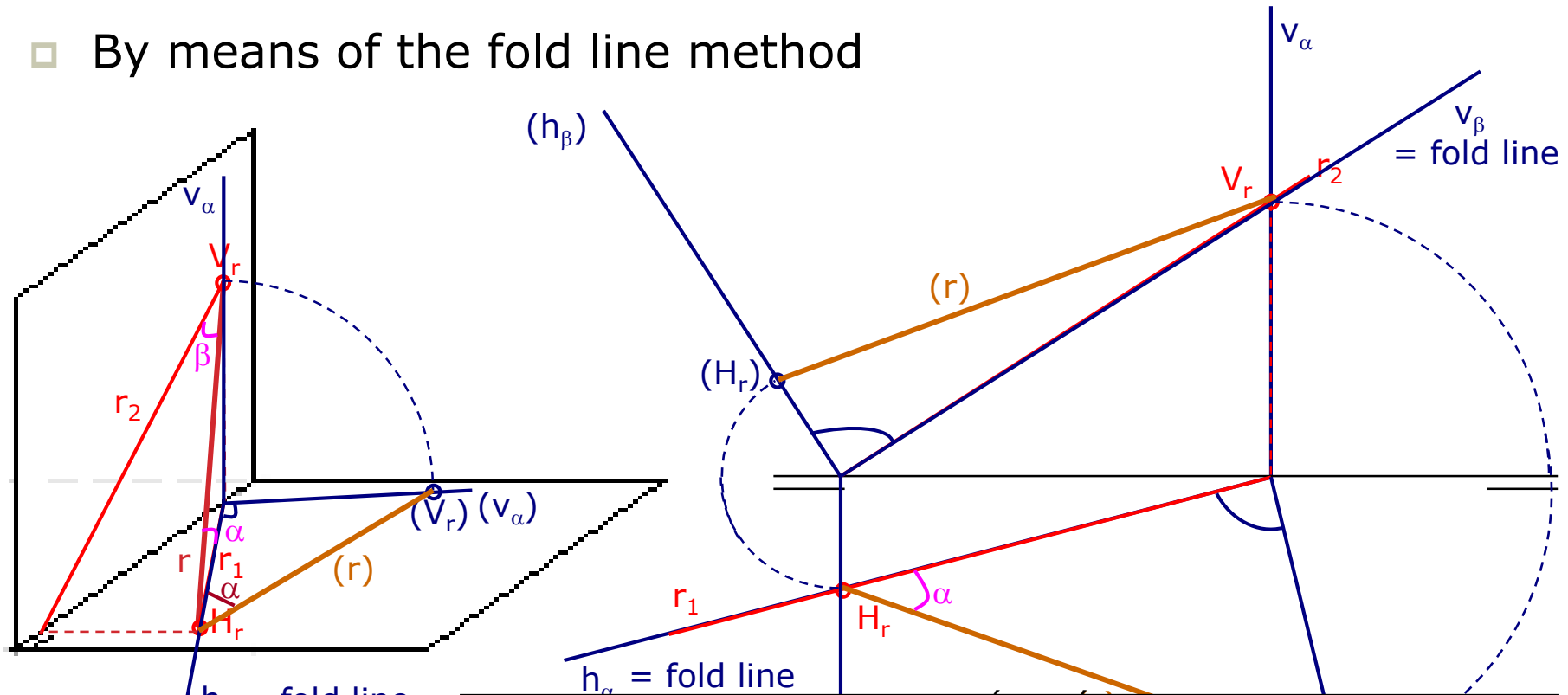
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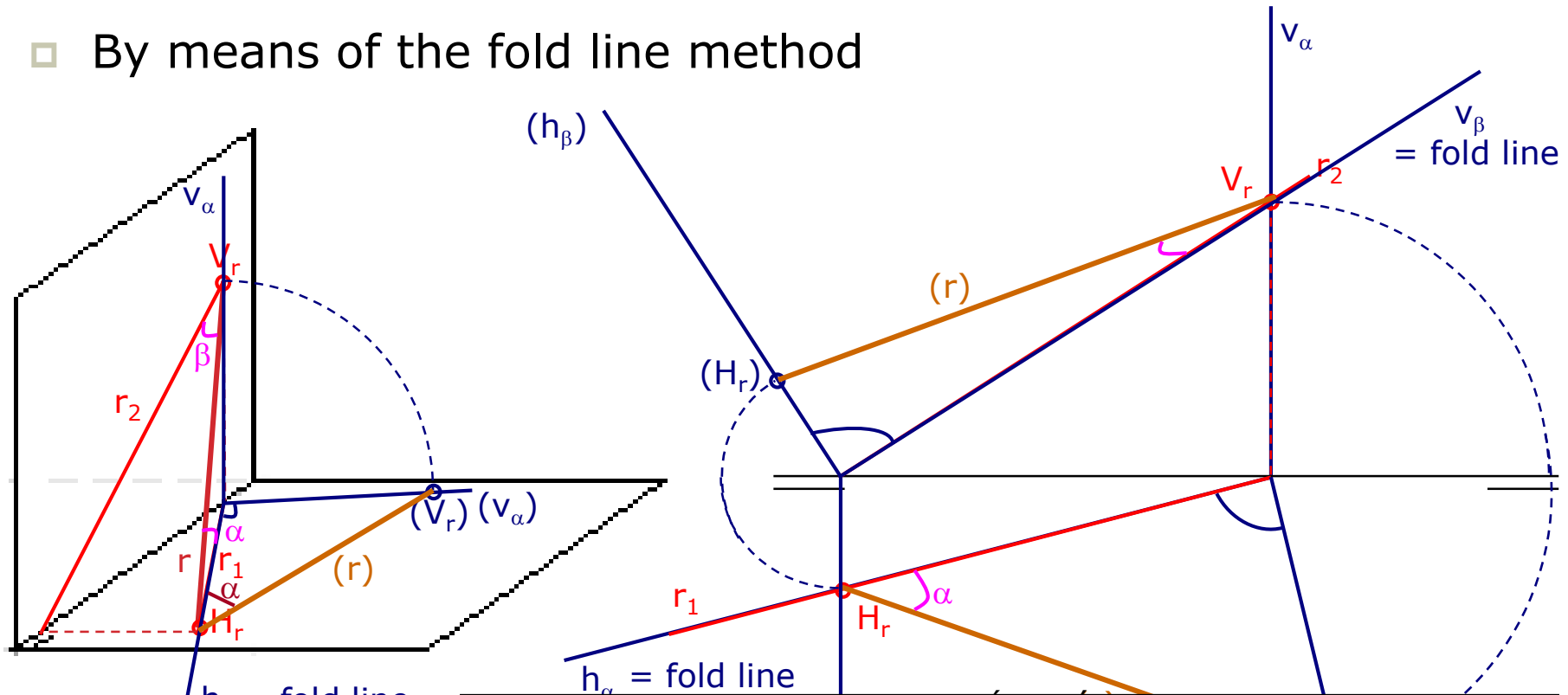
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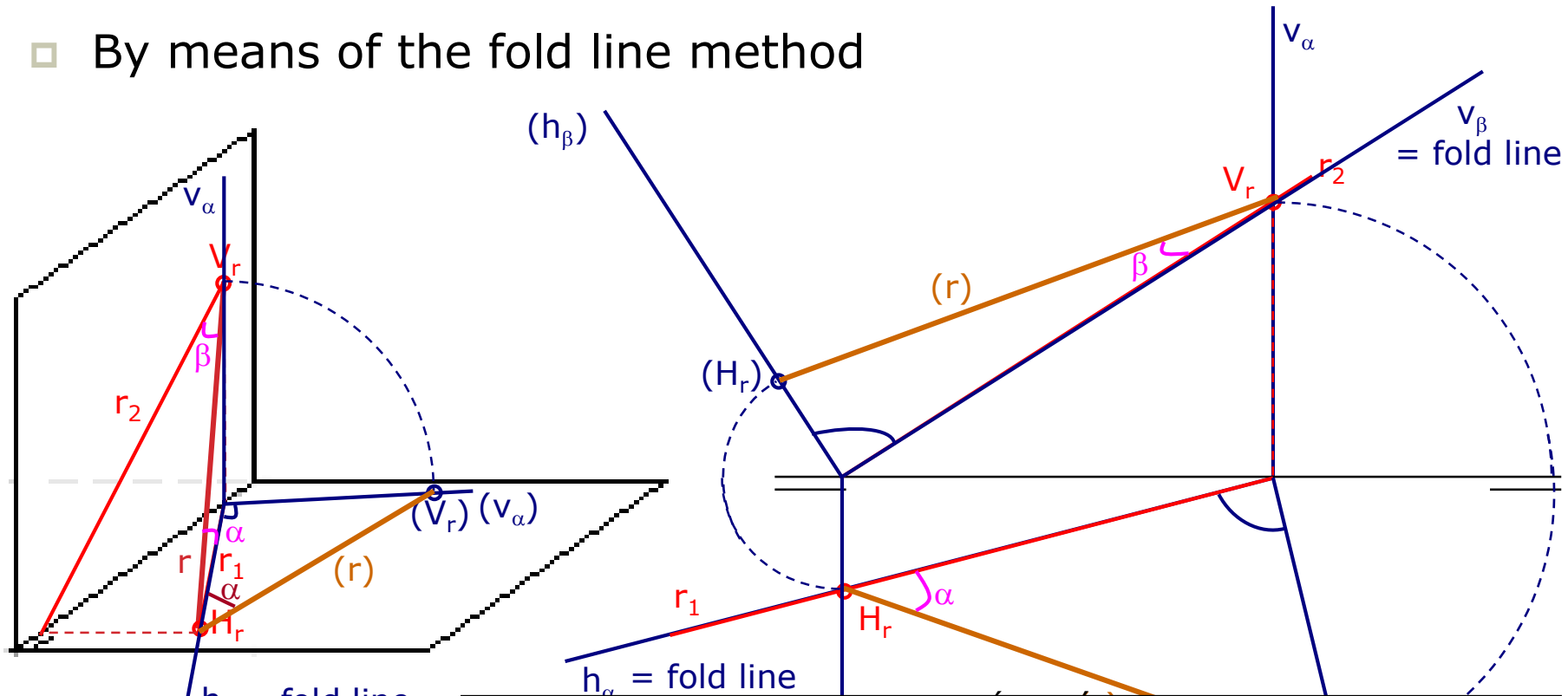
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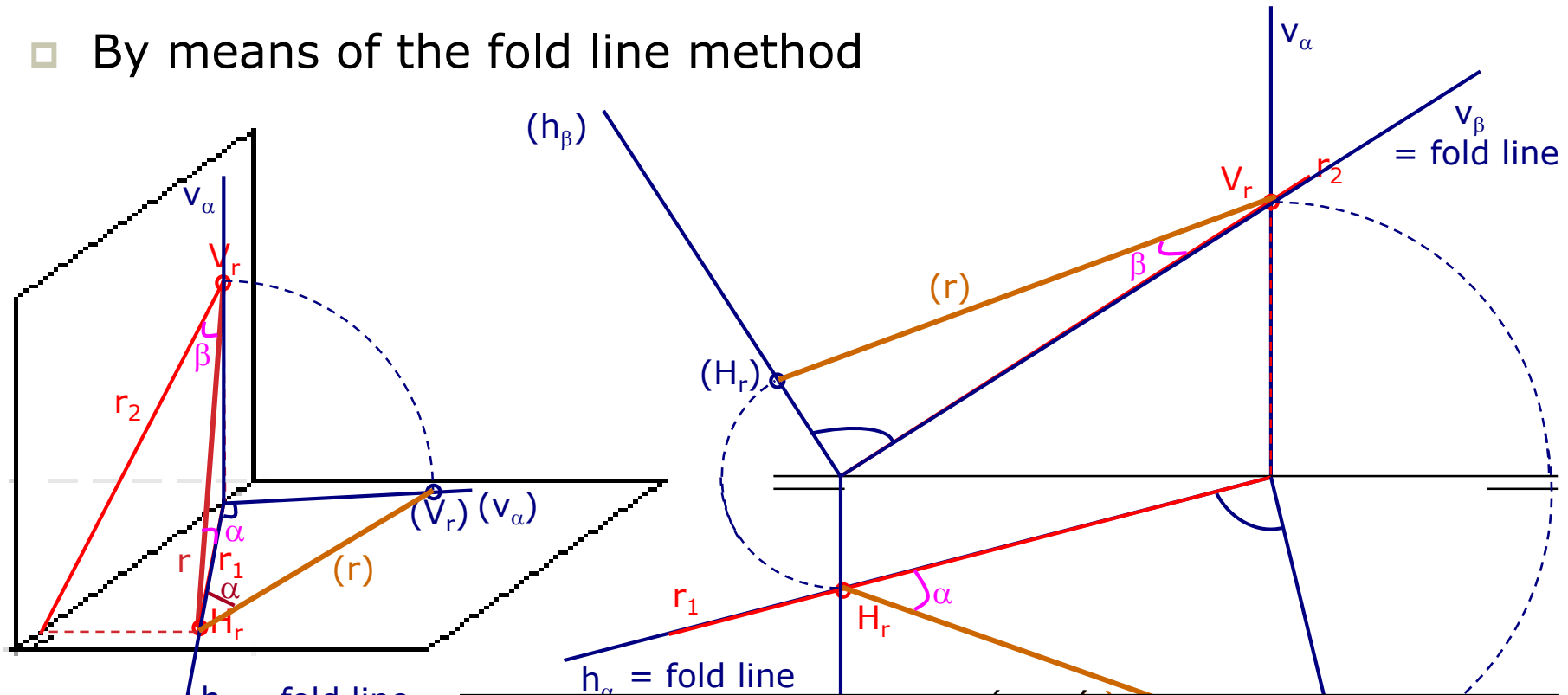
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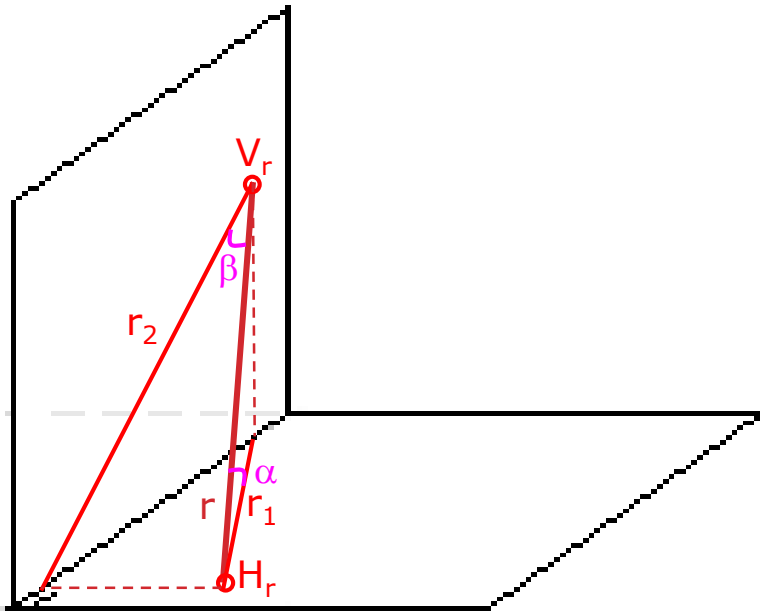
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Angles of a line with respect to the projection planes II

- By means of revolution method



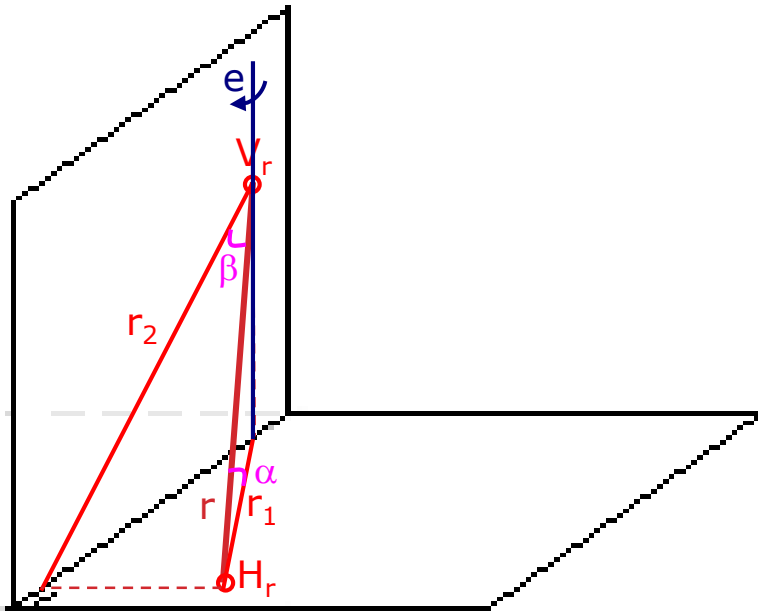
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Angles of a line with respect to the projection planes II

- By means of revolution method



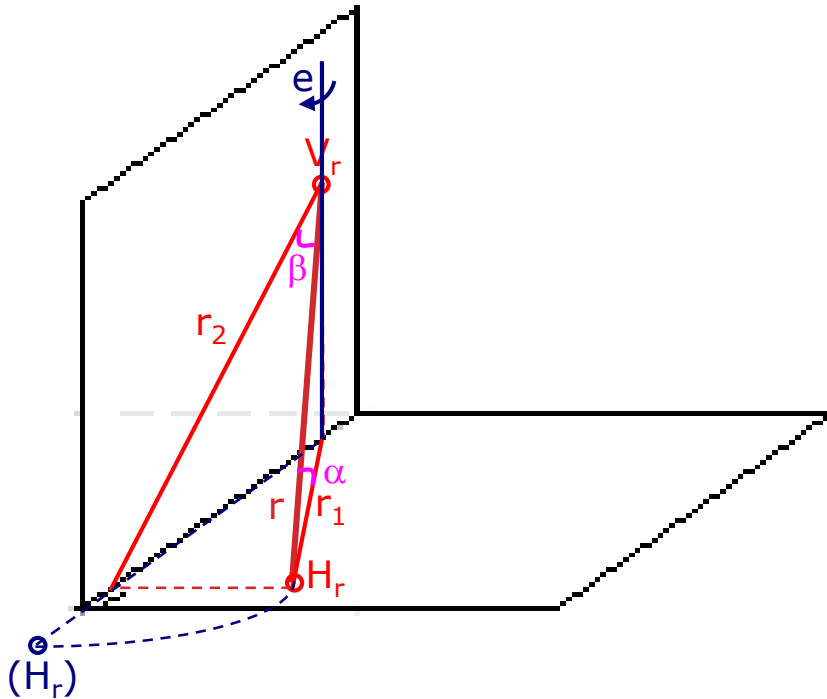
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Angles of a line with respect to the projection planes II

- By means of revolution method



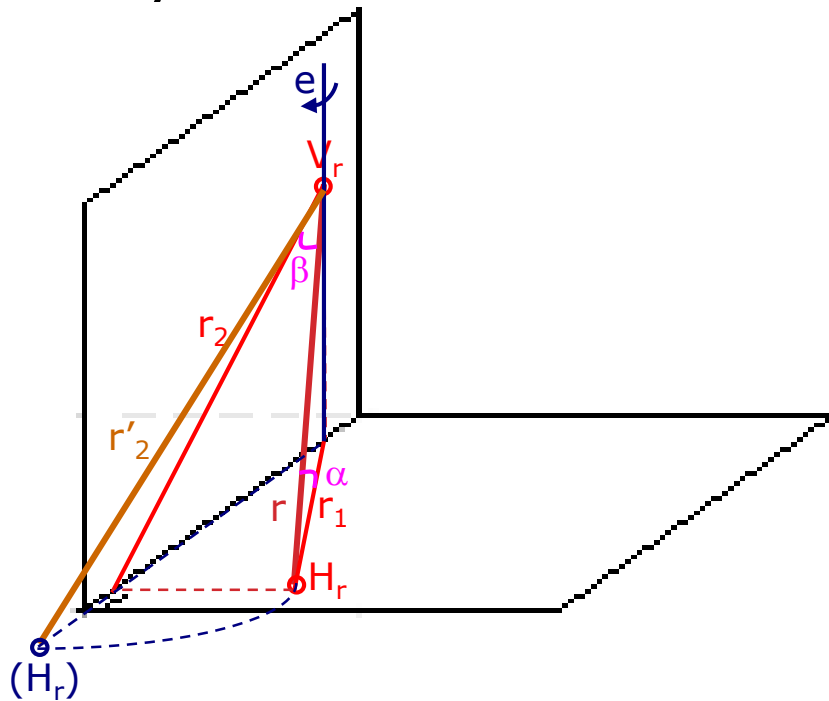
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Angles of a line with respect to the projection planes II

- By means of revolution method



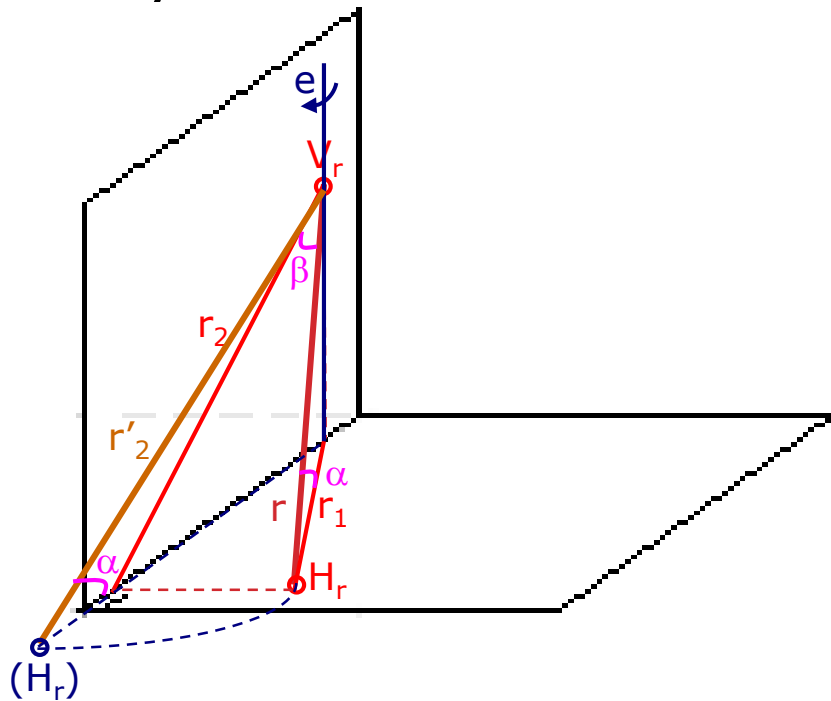
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Angles of a line with respect to the projection planes II

- By means of revolution method



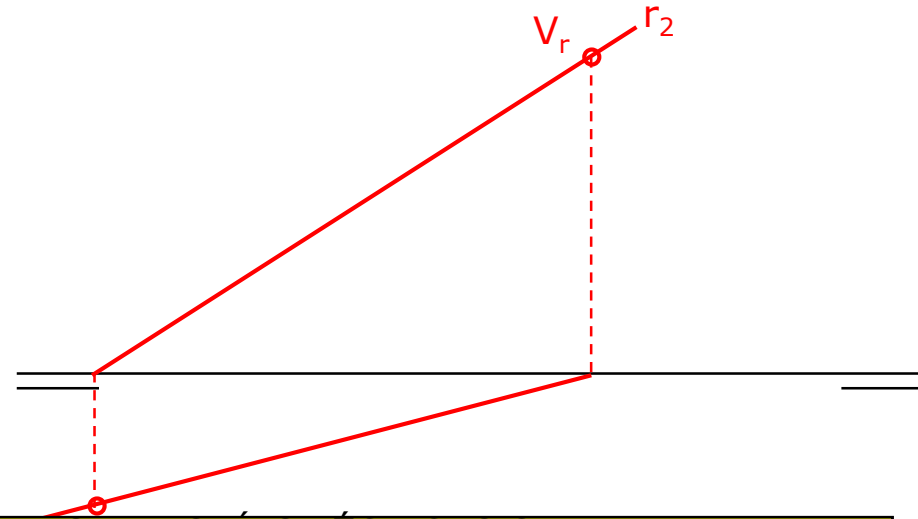
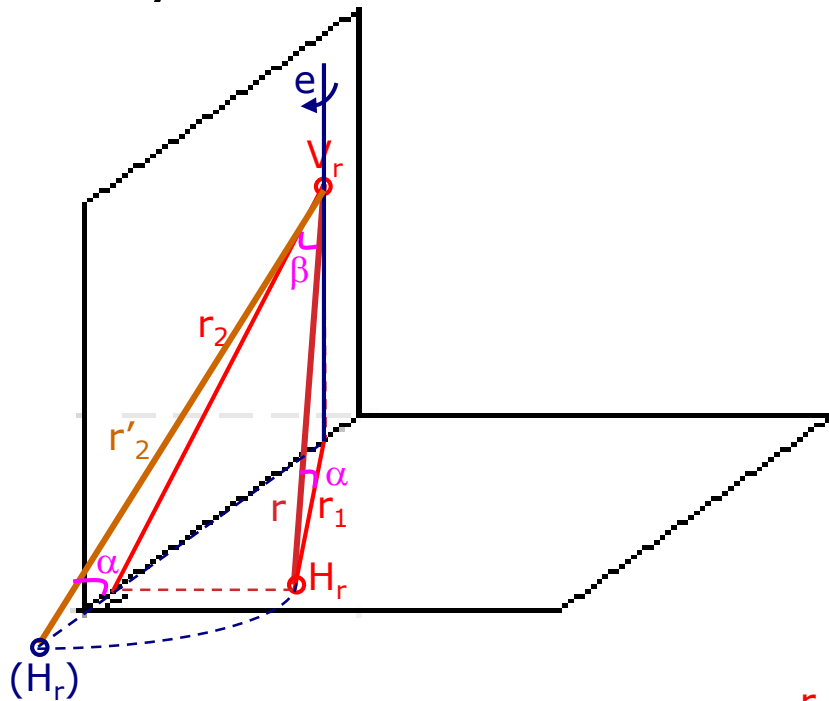
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Angles of a line with respect to the projection planes II

- By means of revolution method



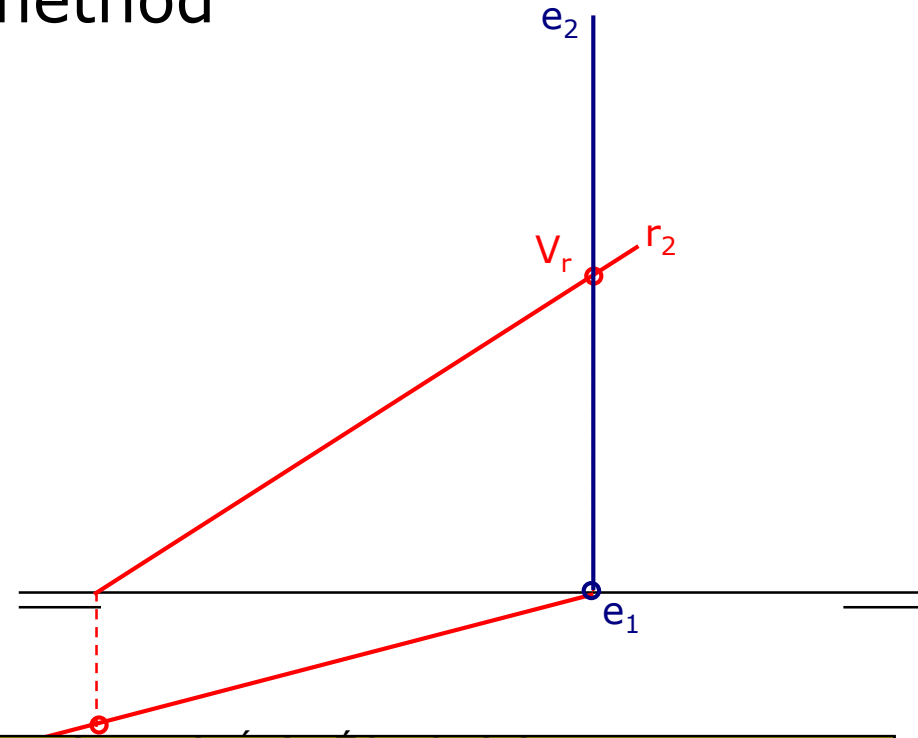
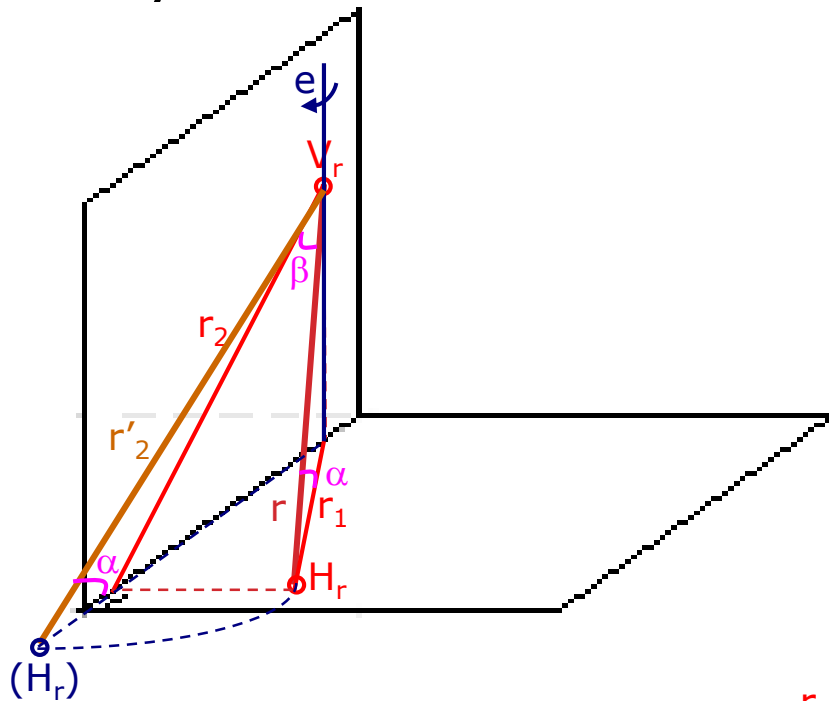
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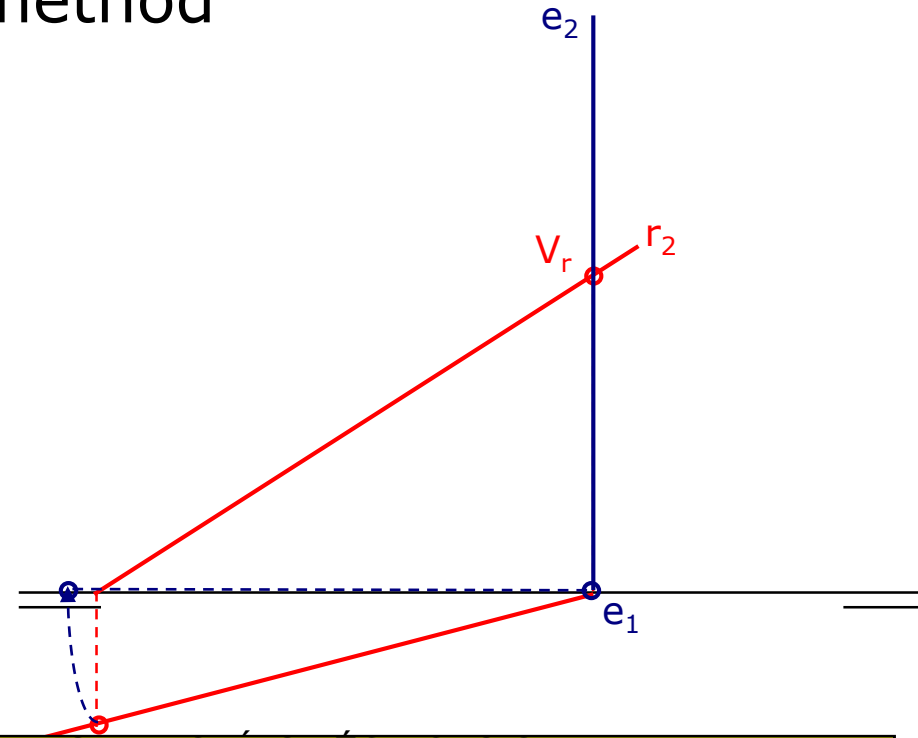
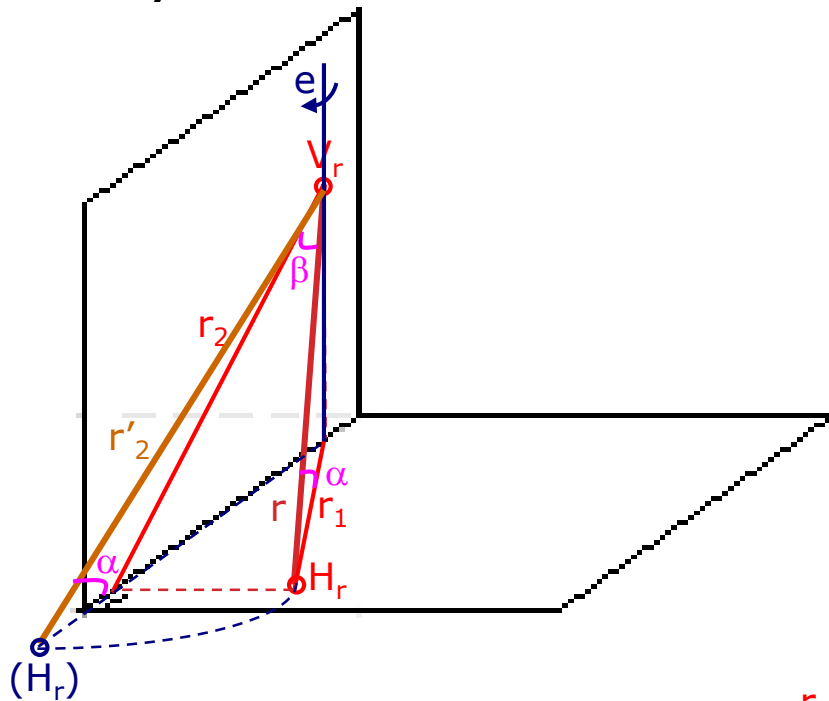
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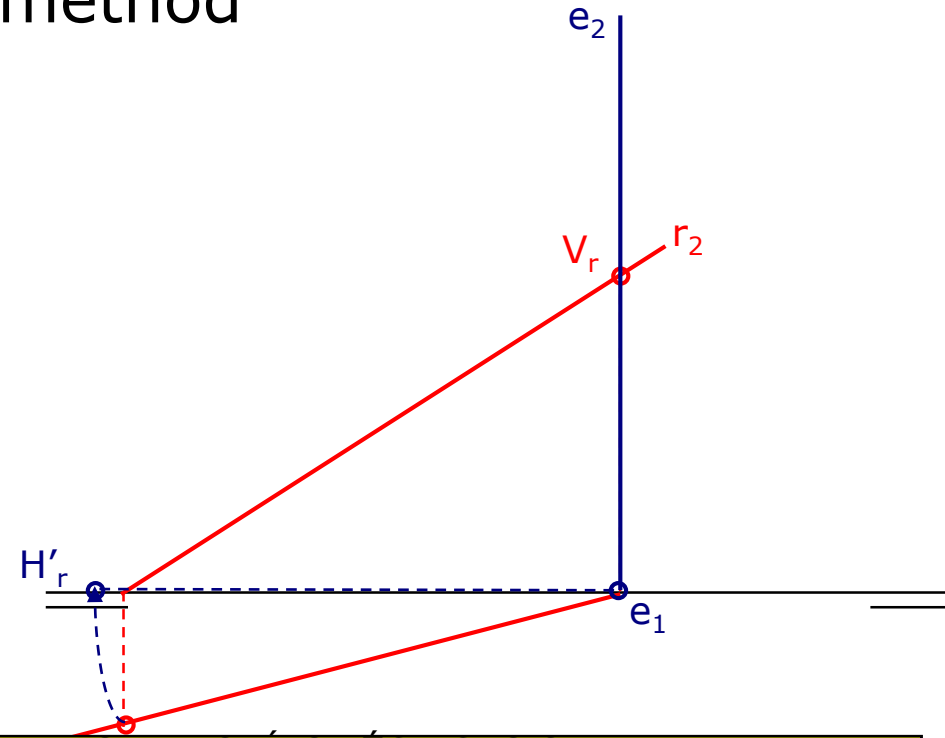
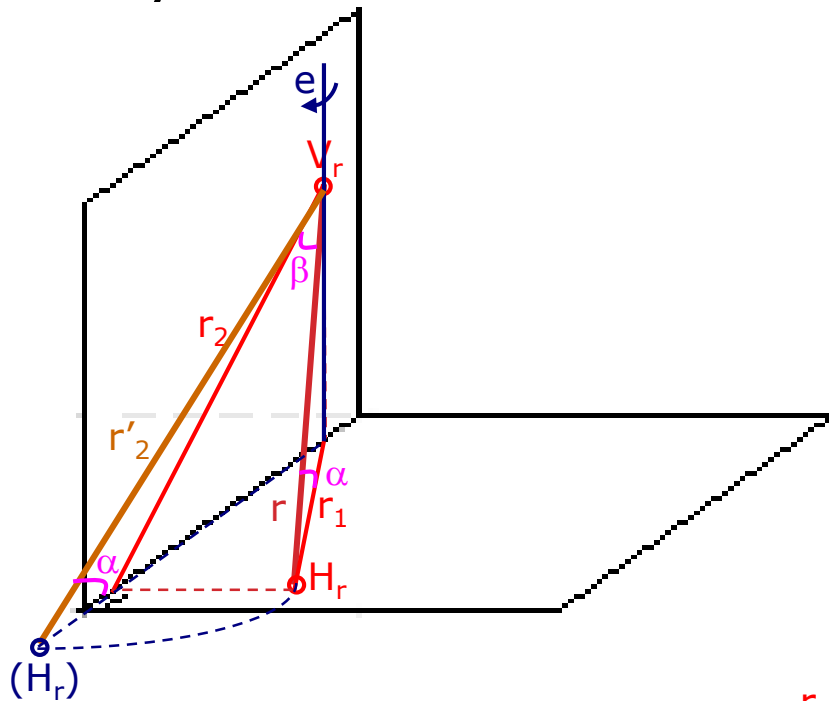
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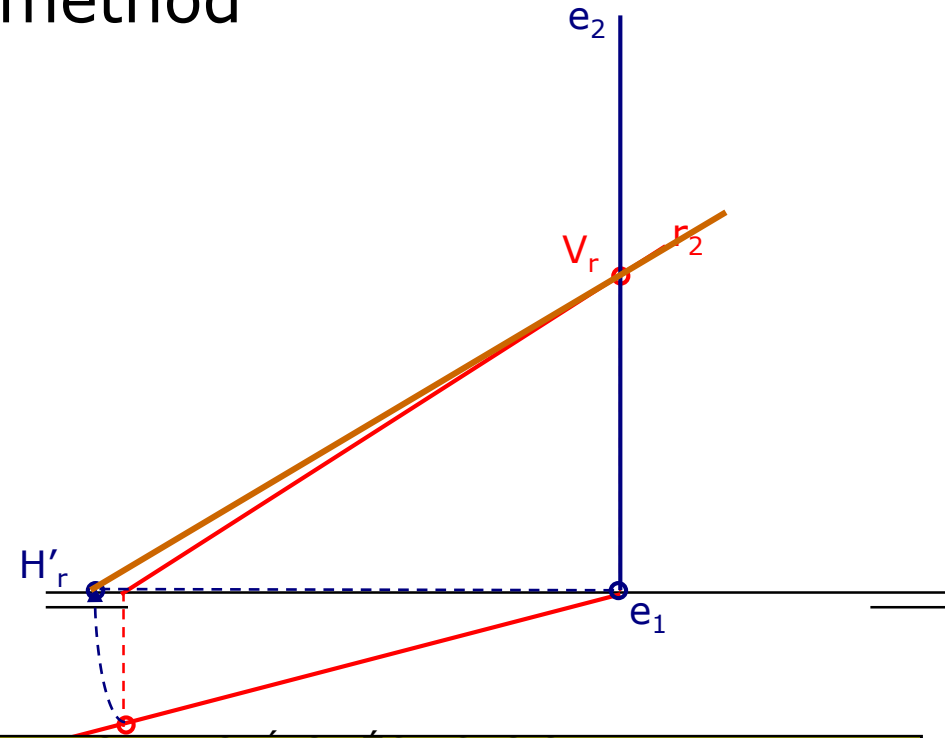
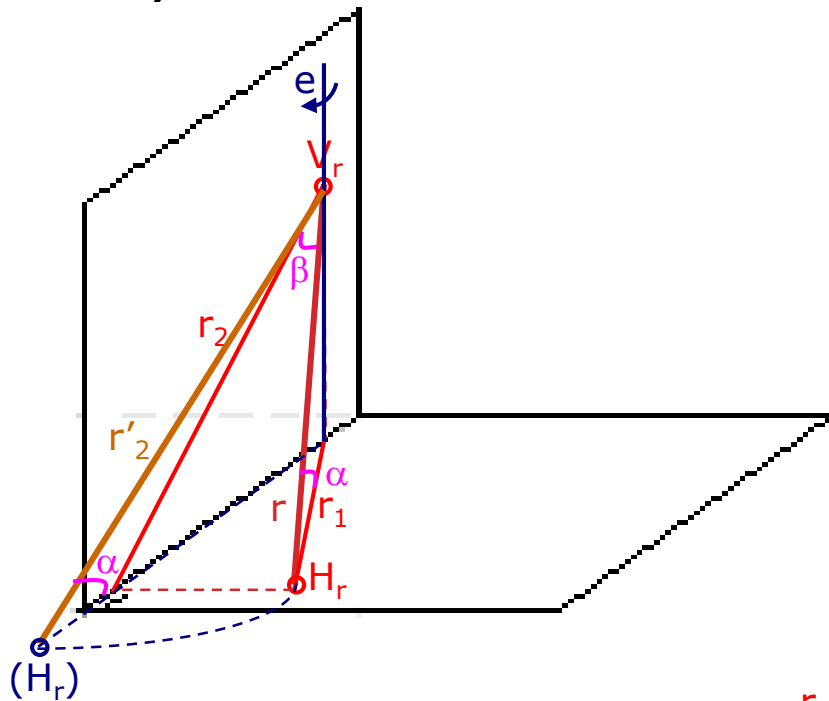
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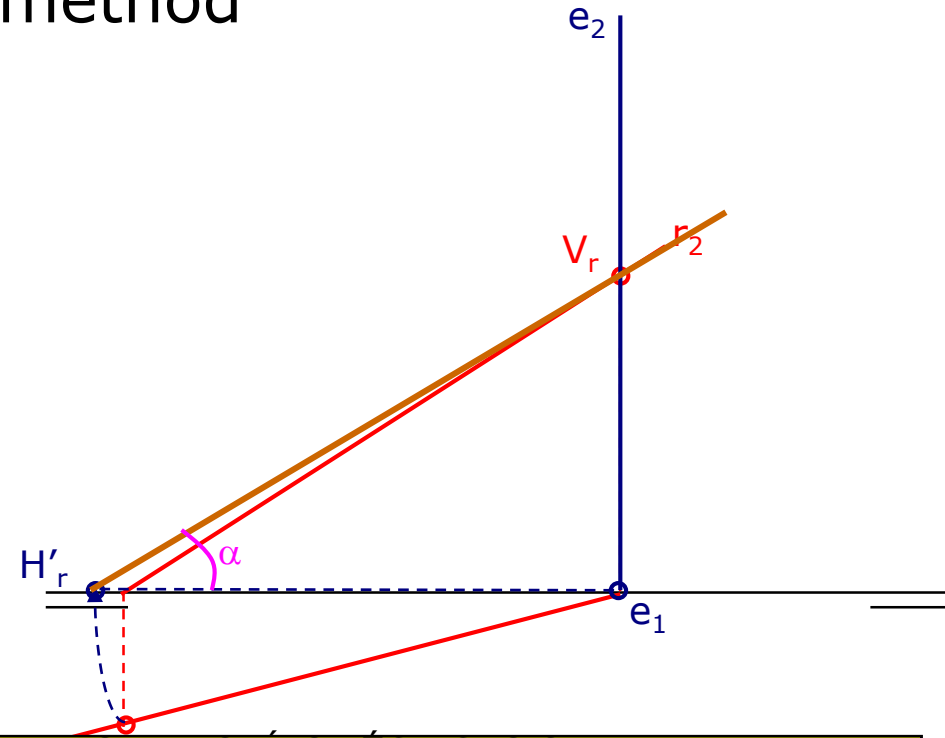
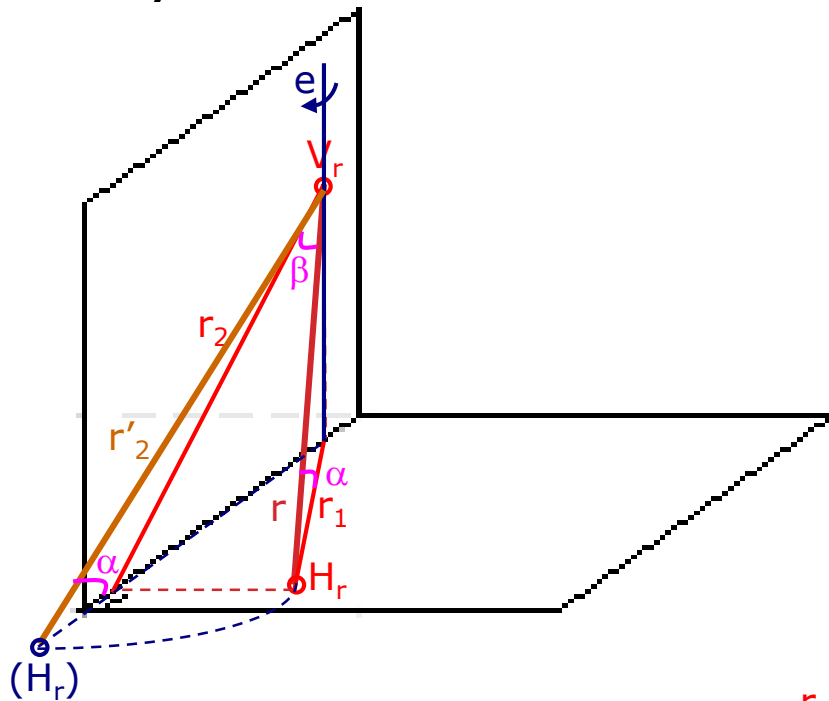
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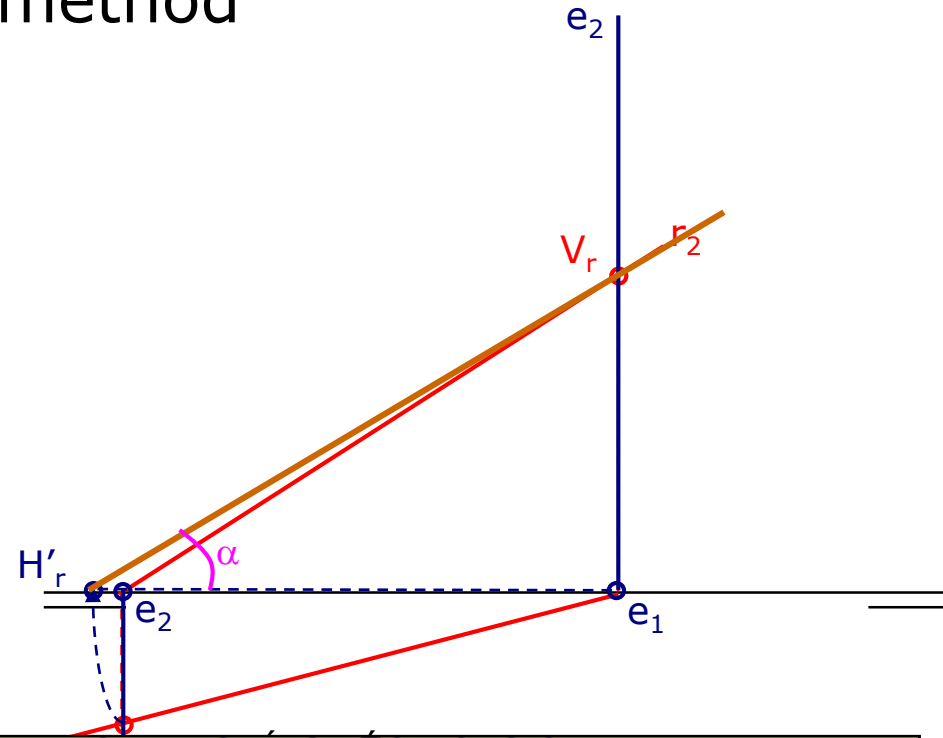
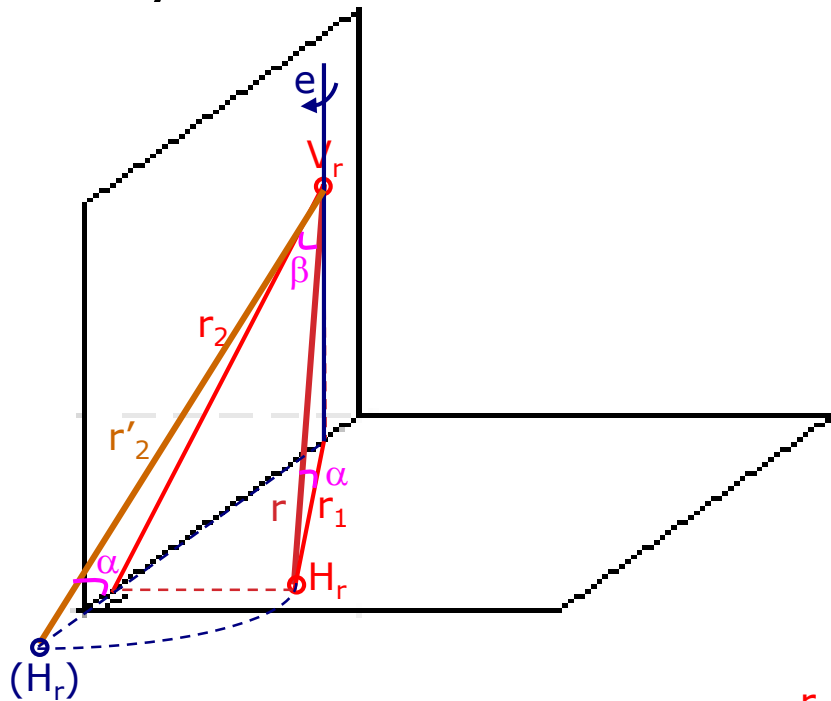
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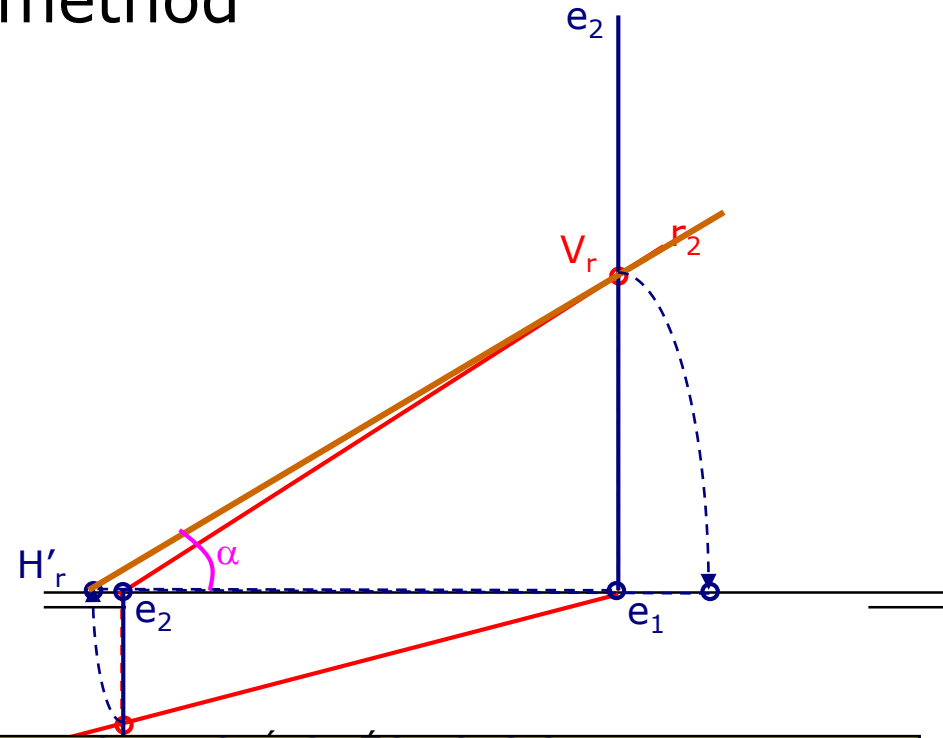
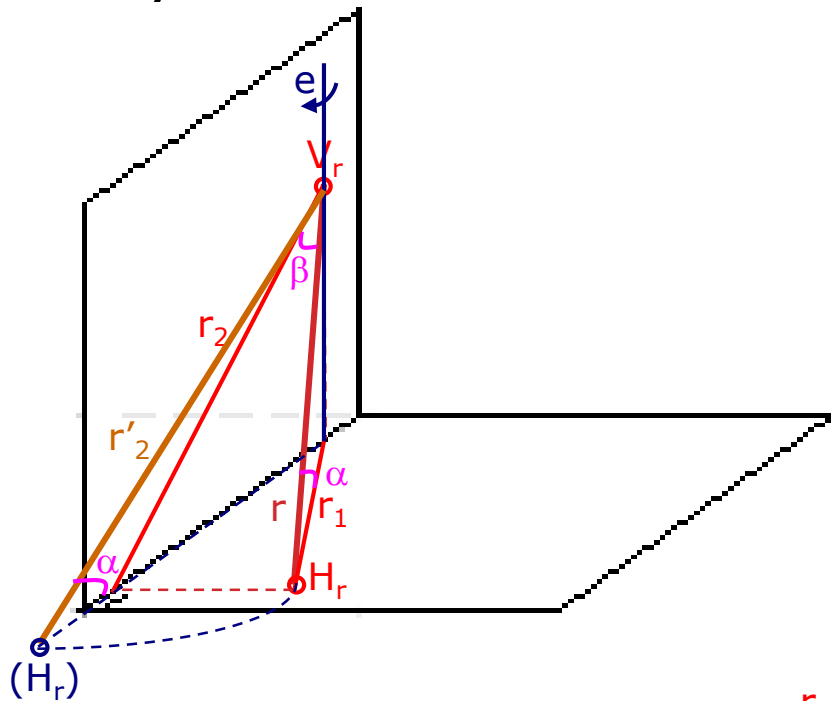
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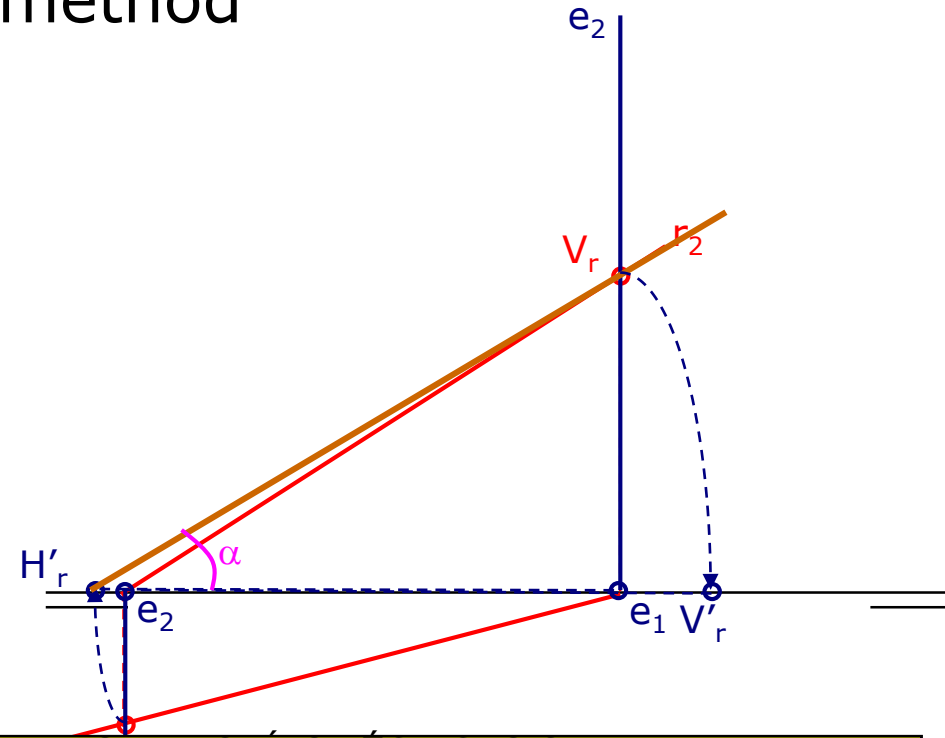
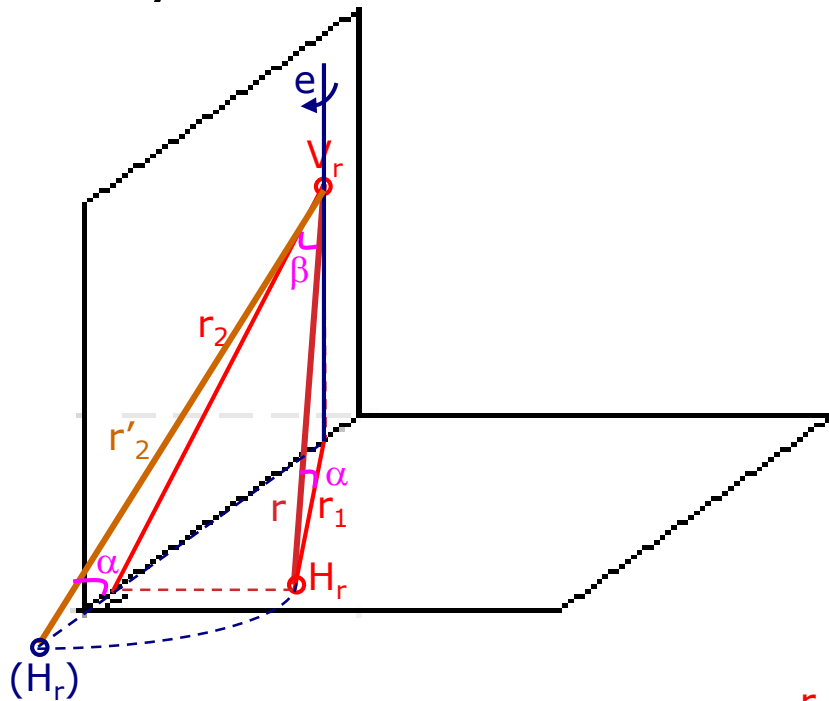
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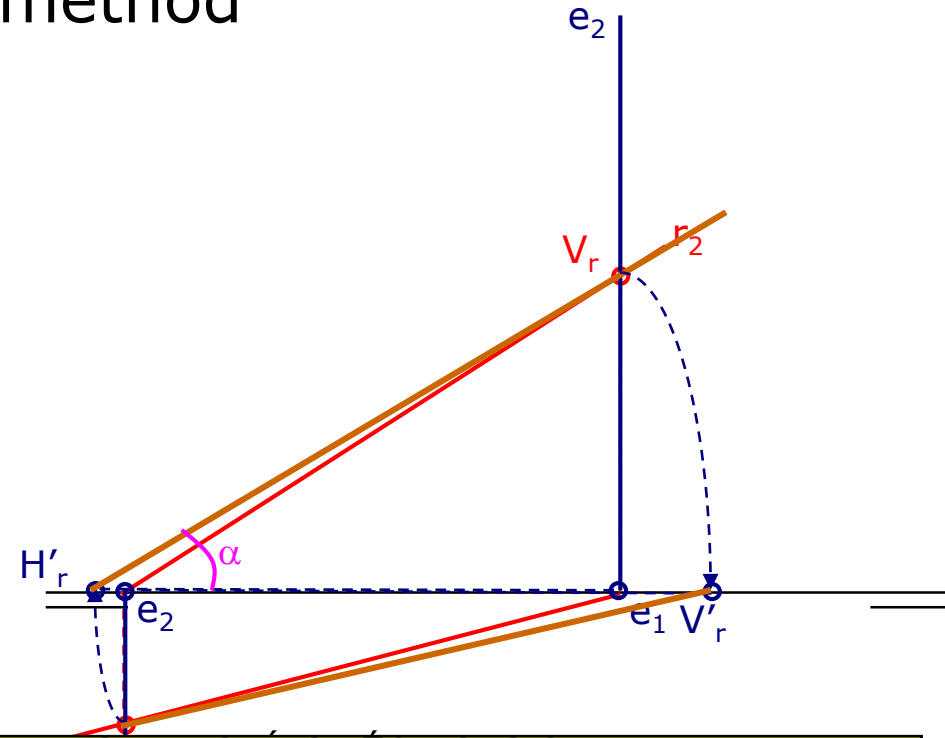
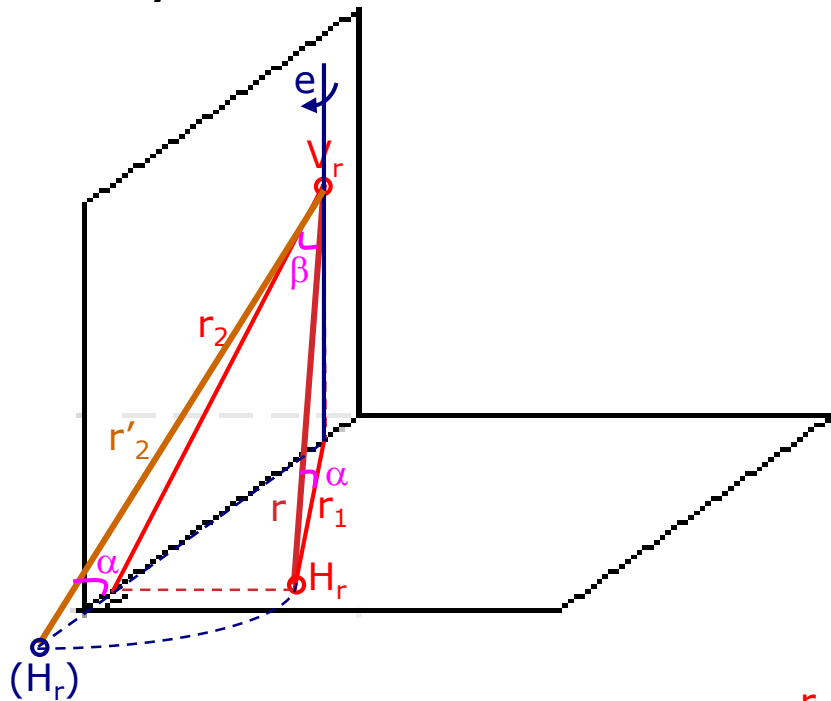
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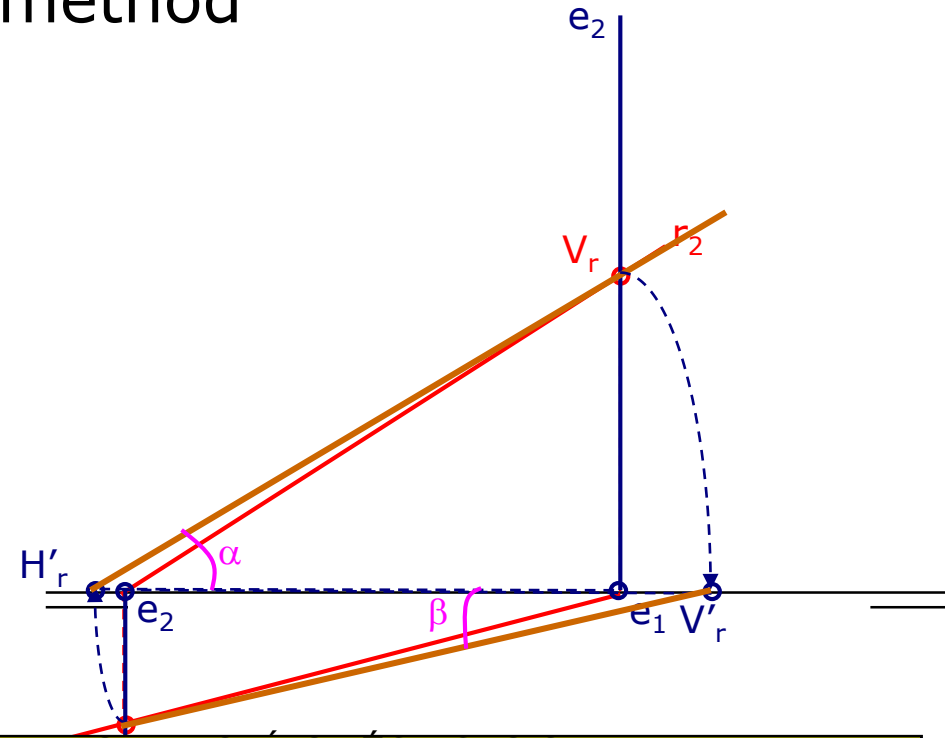
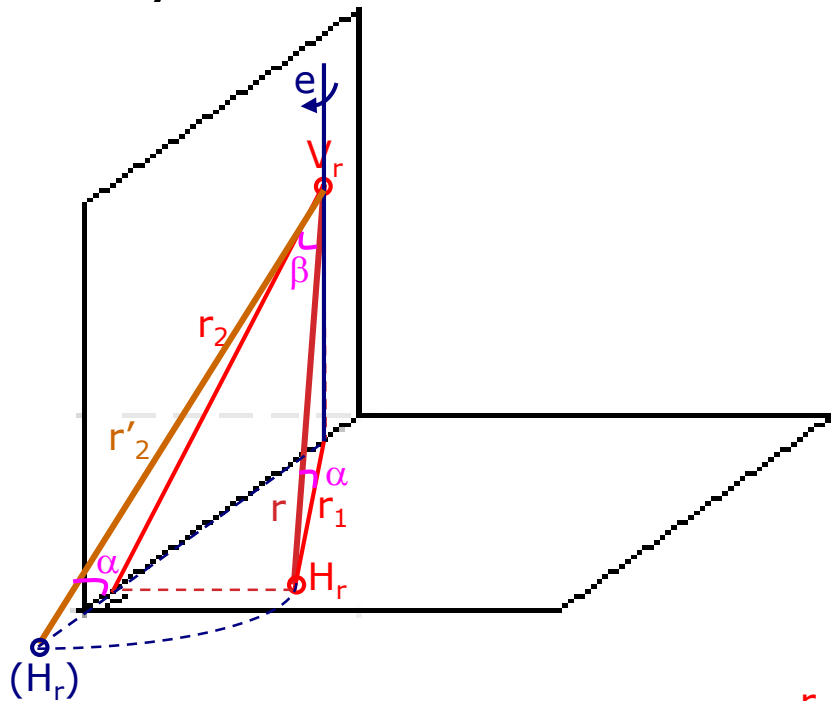
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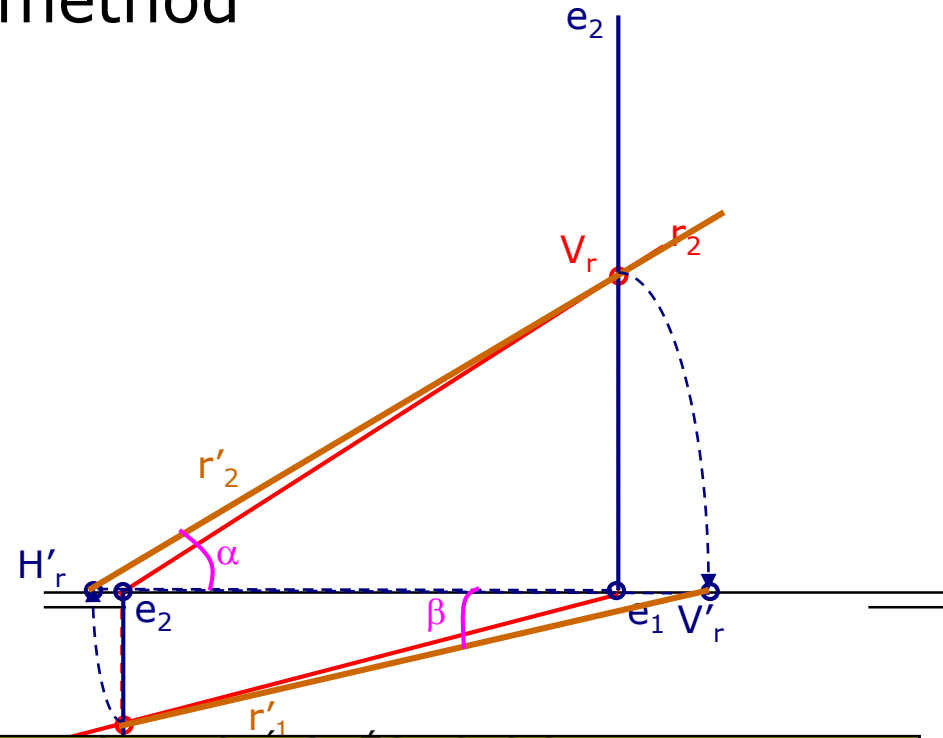
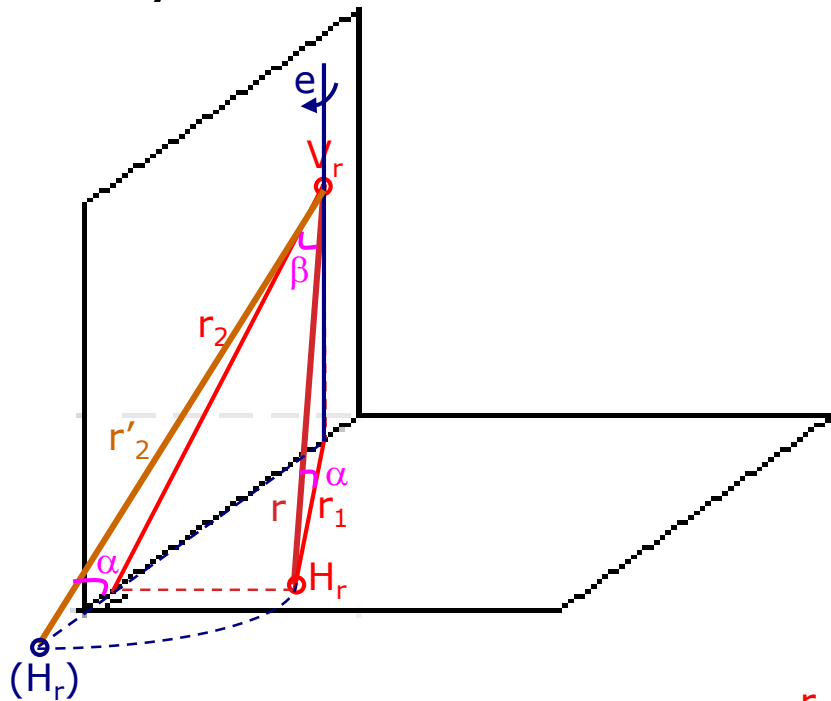
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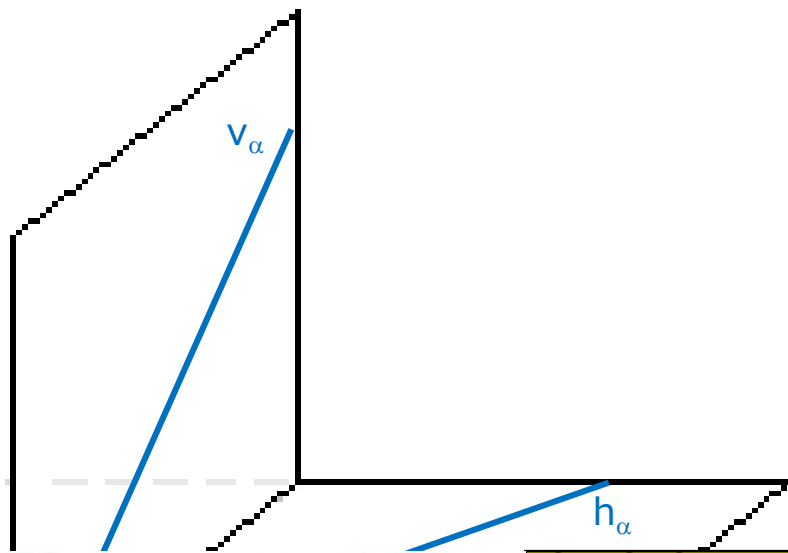
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Angles of a plane with respect to the horizontal projection plane

- Is the same angle as the angle formed between the maximum slope line and the horizontal projection plane



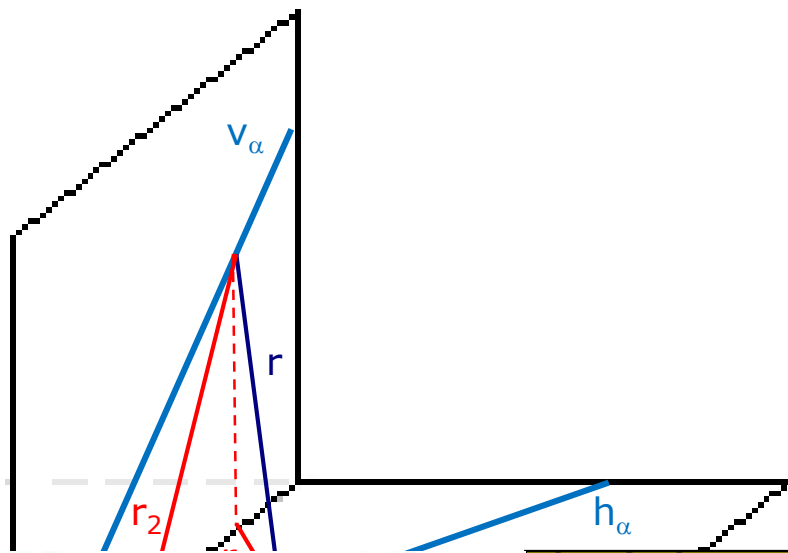
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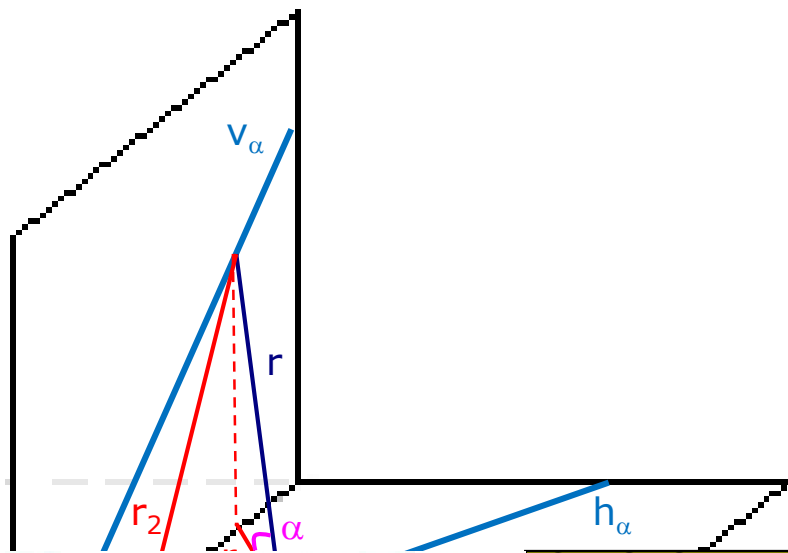
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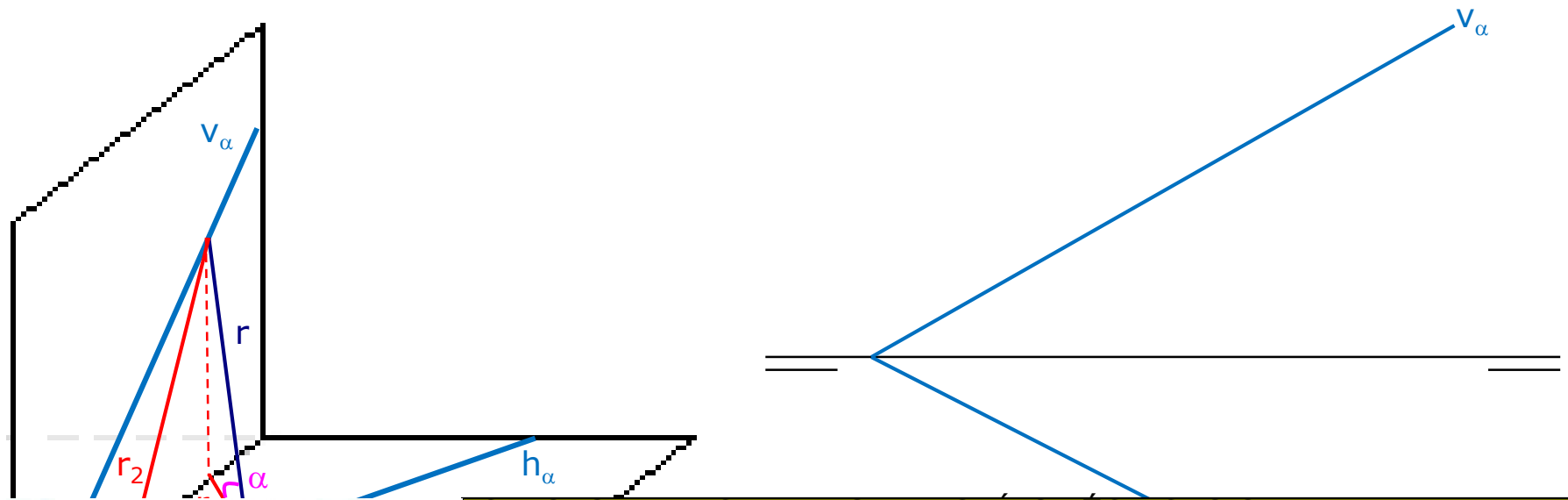
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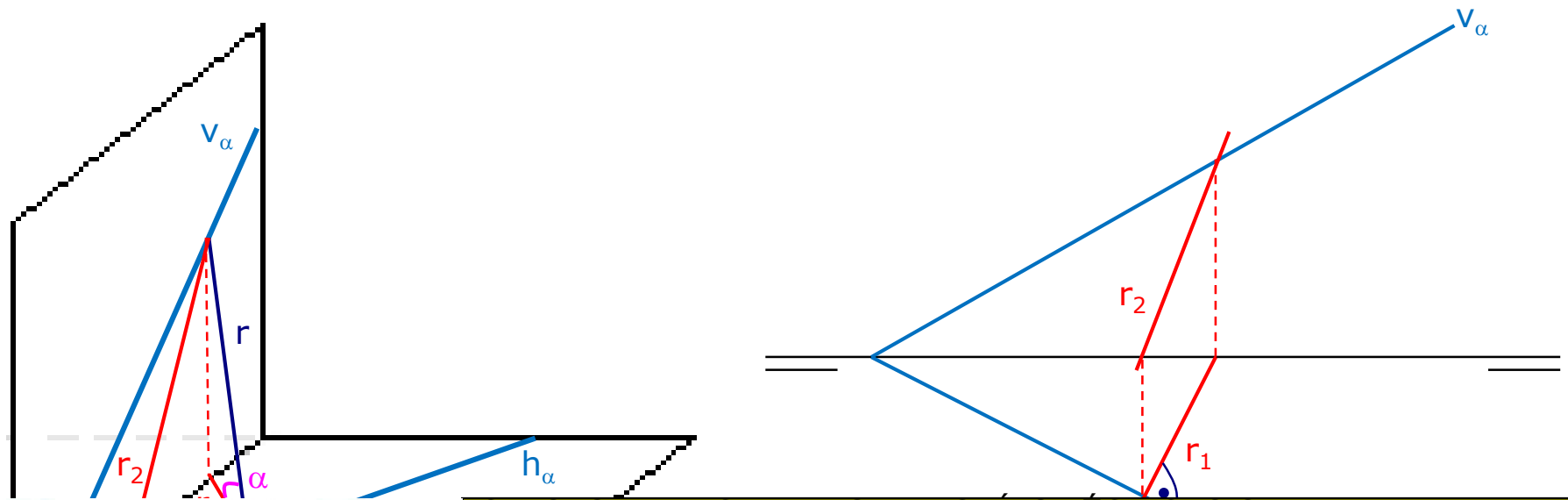
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α

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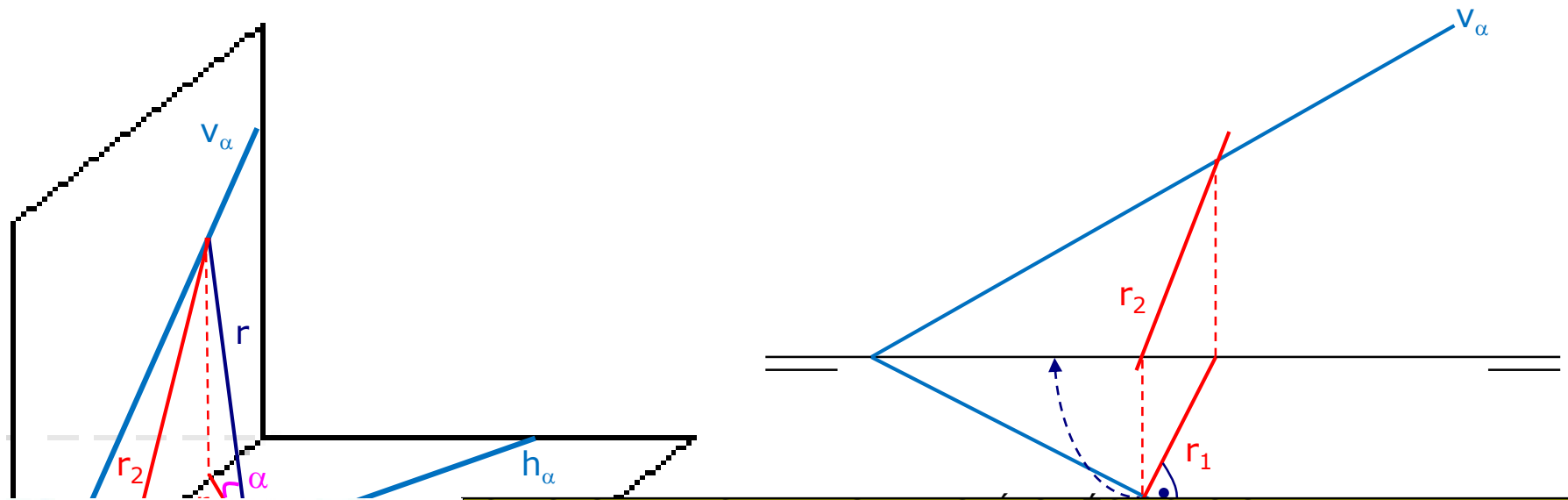
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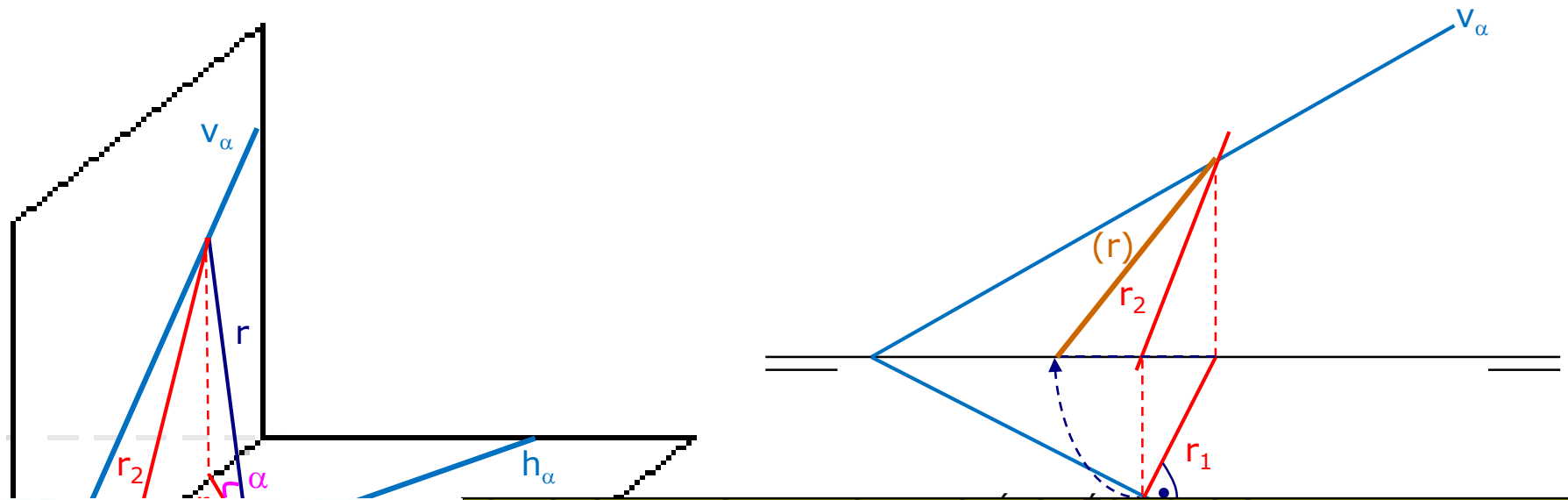
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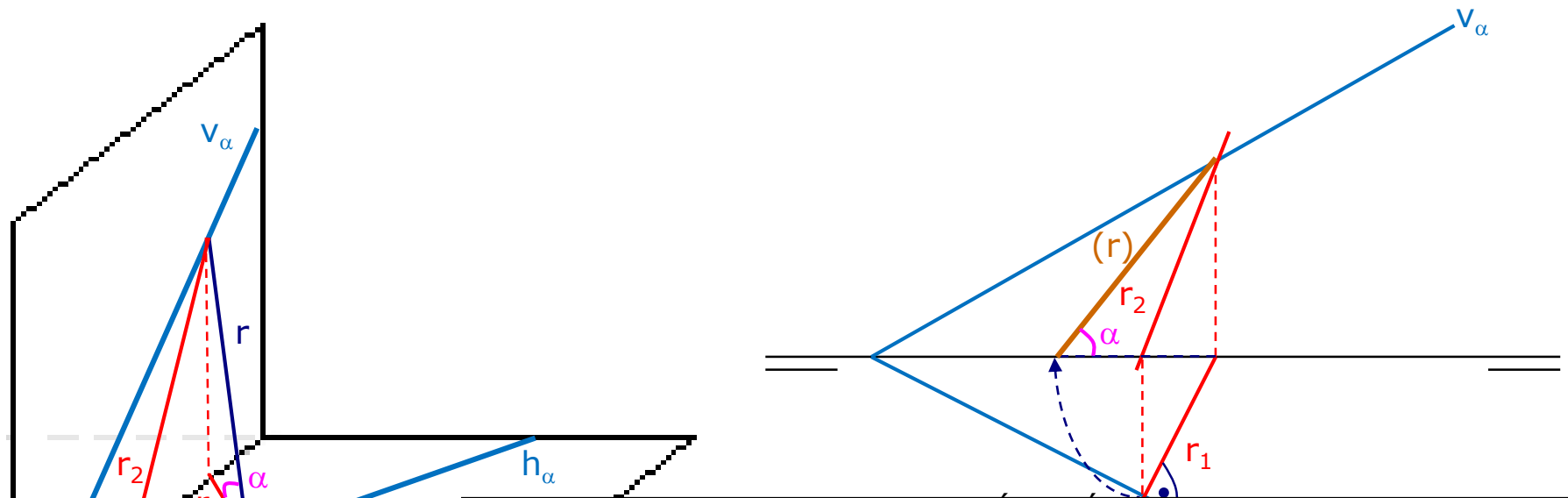
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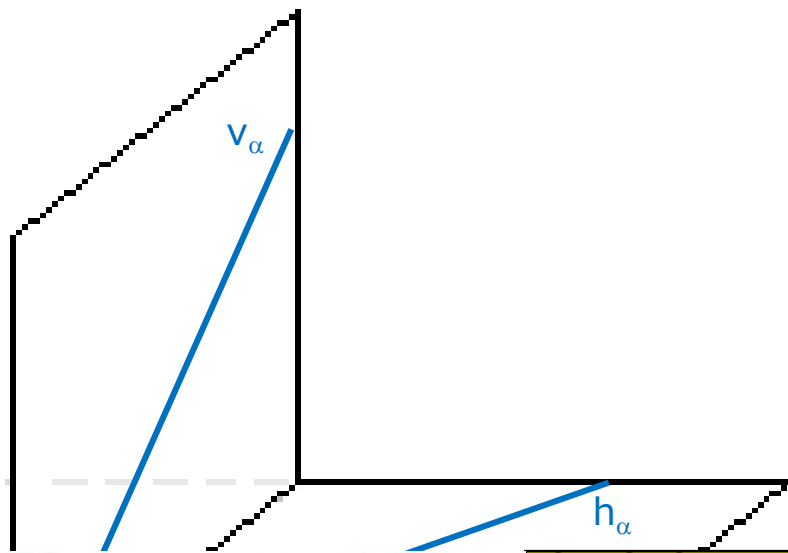
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π_α

Angles of a plane with respect to the vertical projection plane

- Is the same angle that is formed between the maximum inclination line and the vertical projection plane



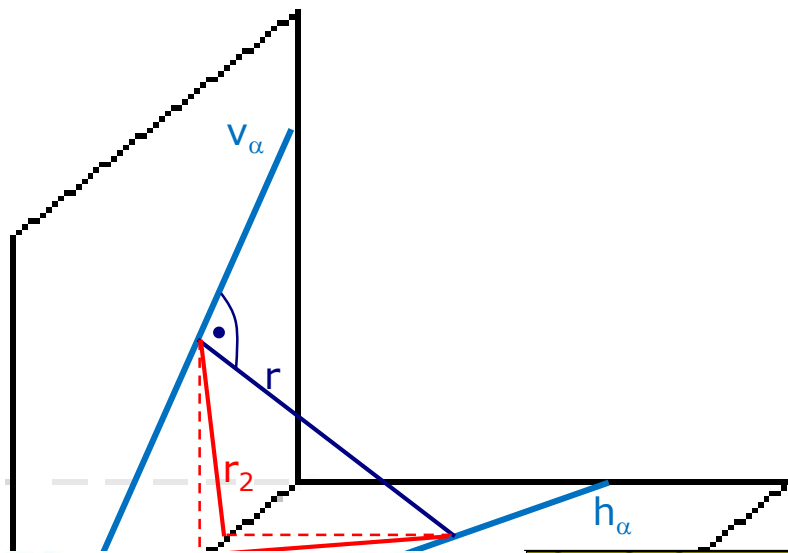
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Angles of a plane with respect to the vertical projection plane

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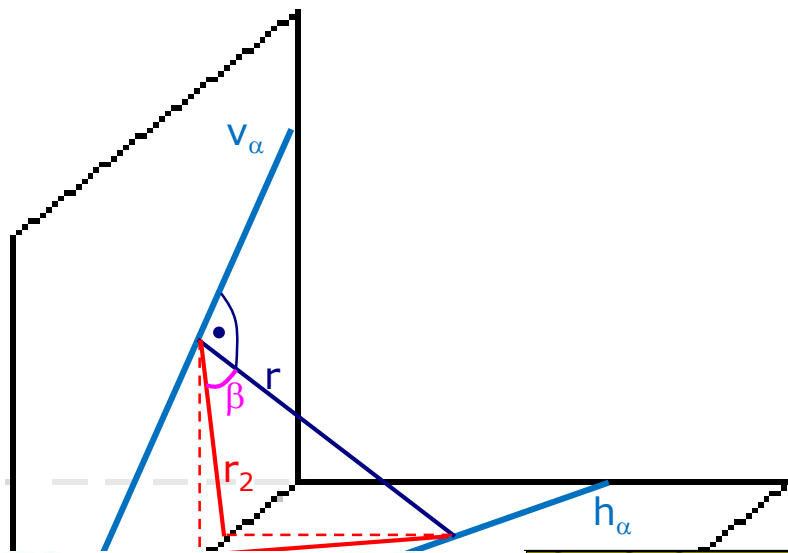
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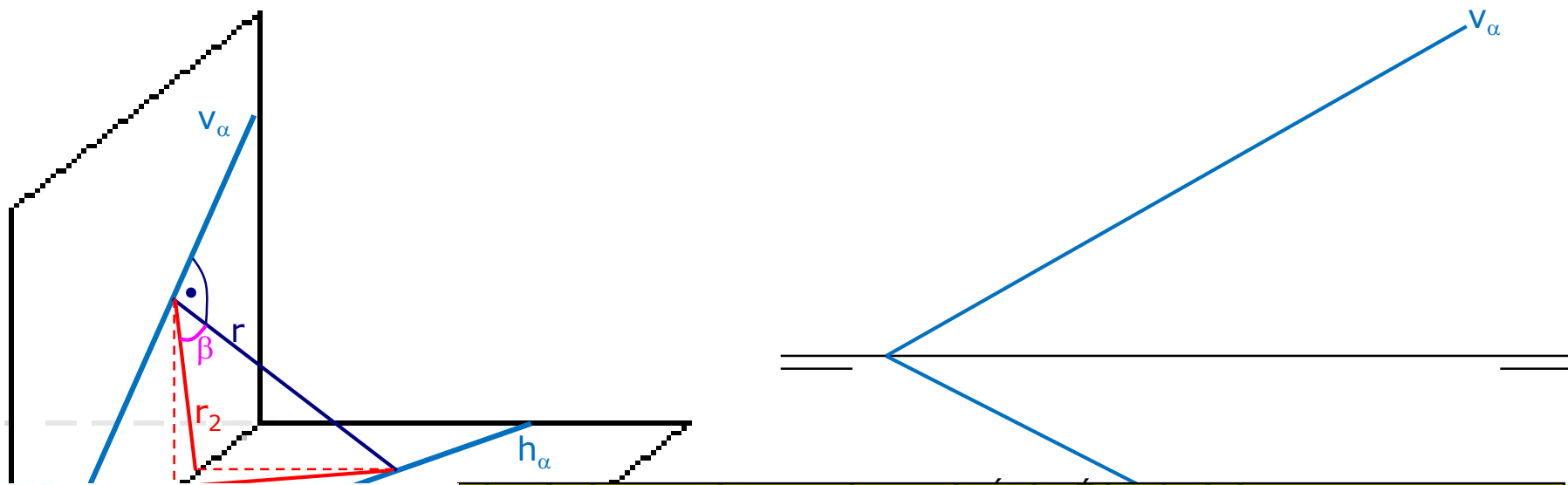
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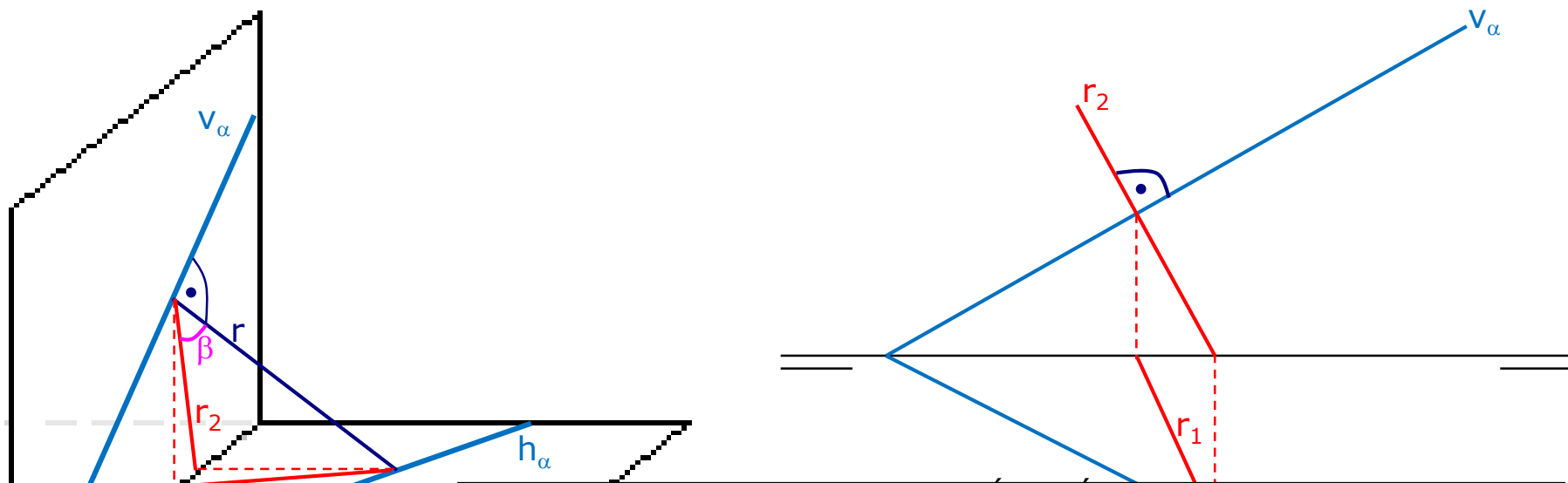
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h_α

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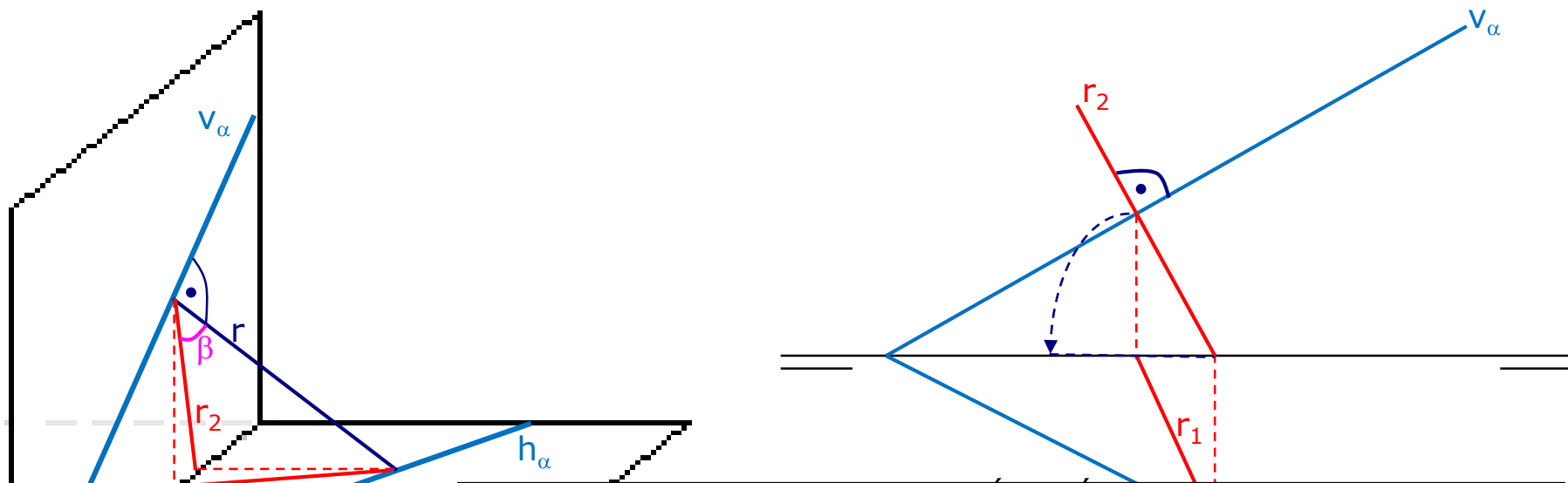
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h_α

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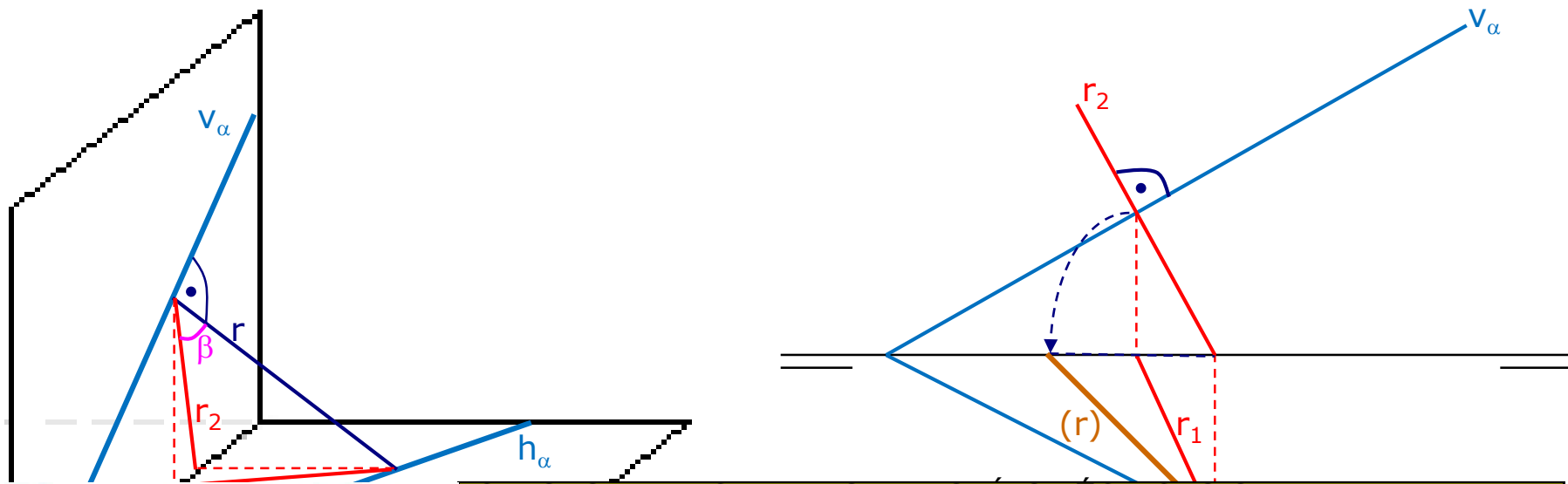
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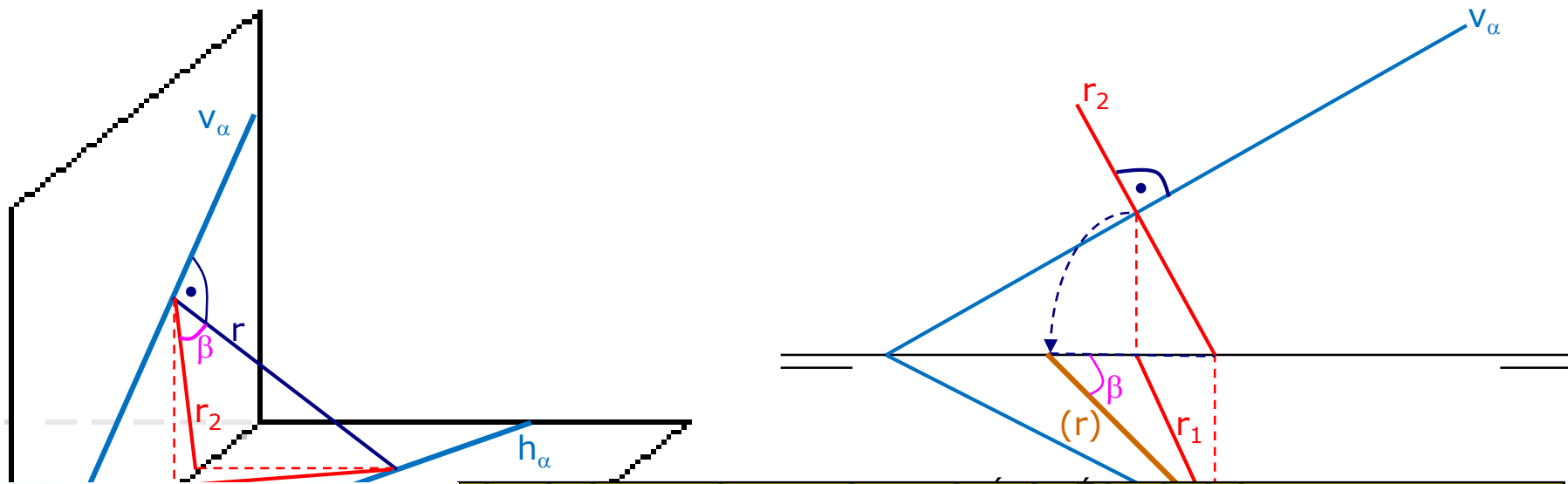
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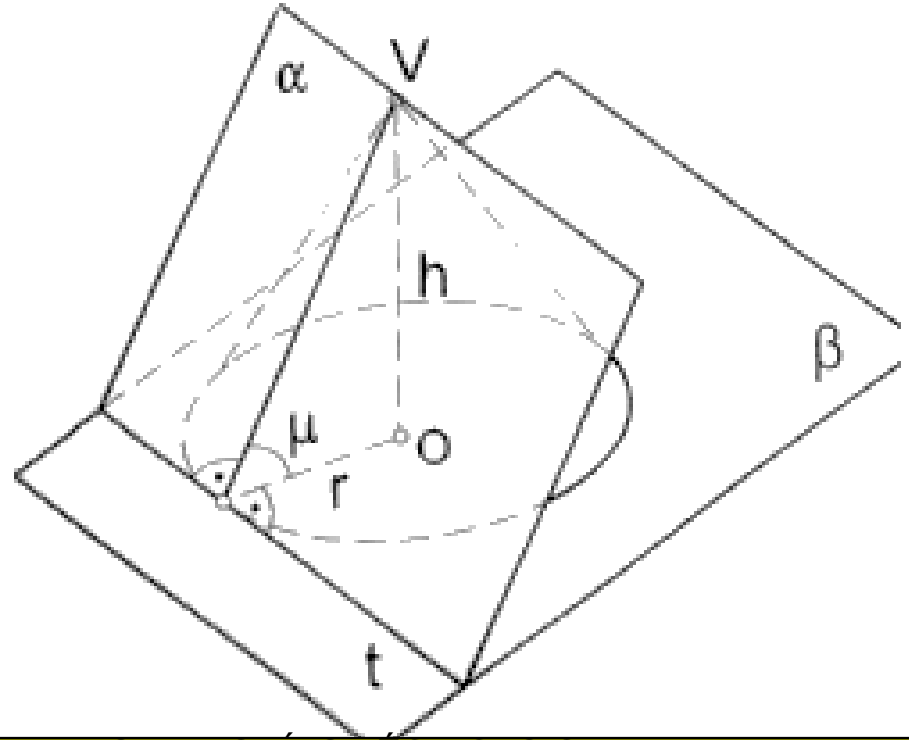
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h_α

Construction of angles I

- For the construction of geometric elements that have a certain angle with other elements that are already given, it is very useful to construct a regular cone.
- The generatrix lines of a regular cone have the same angle with respect to its base.



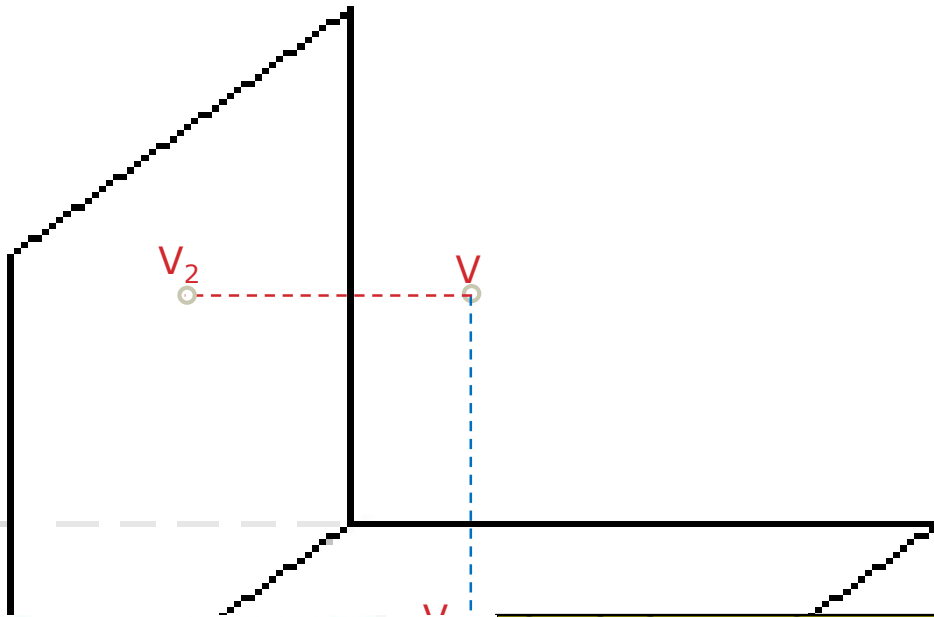
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Construction of angles II

- Construction of lines and planes that form a certain angle θ with the horizontal plane and passes through point V.



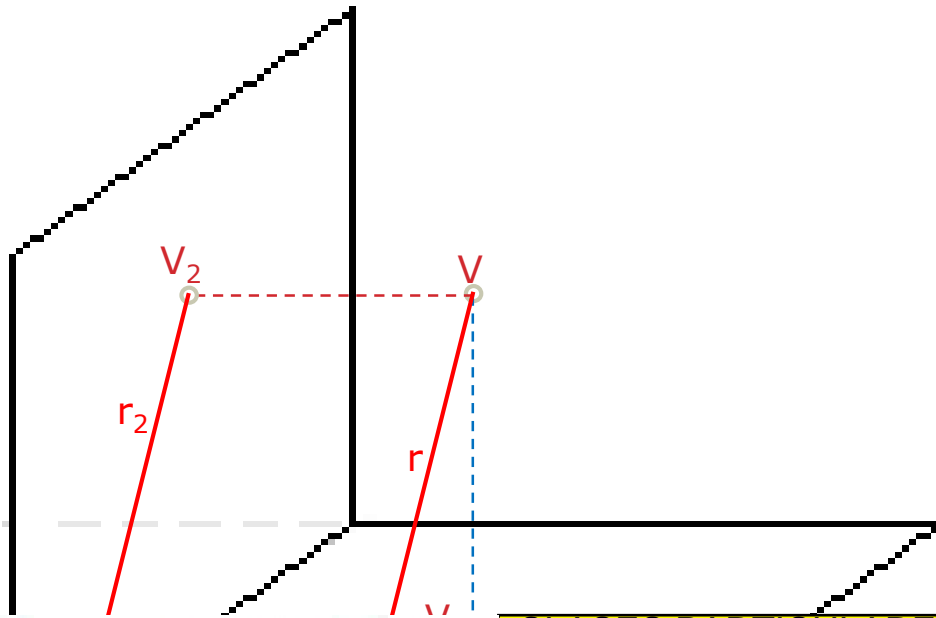
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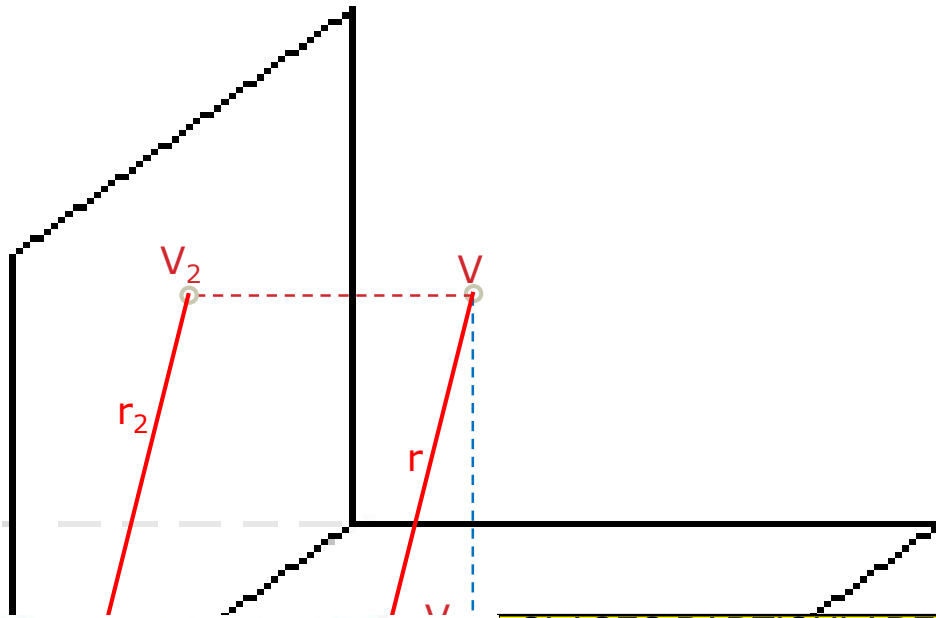
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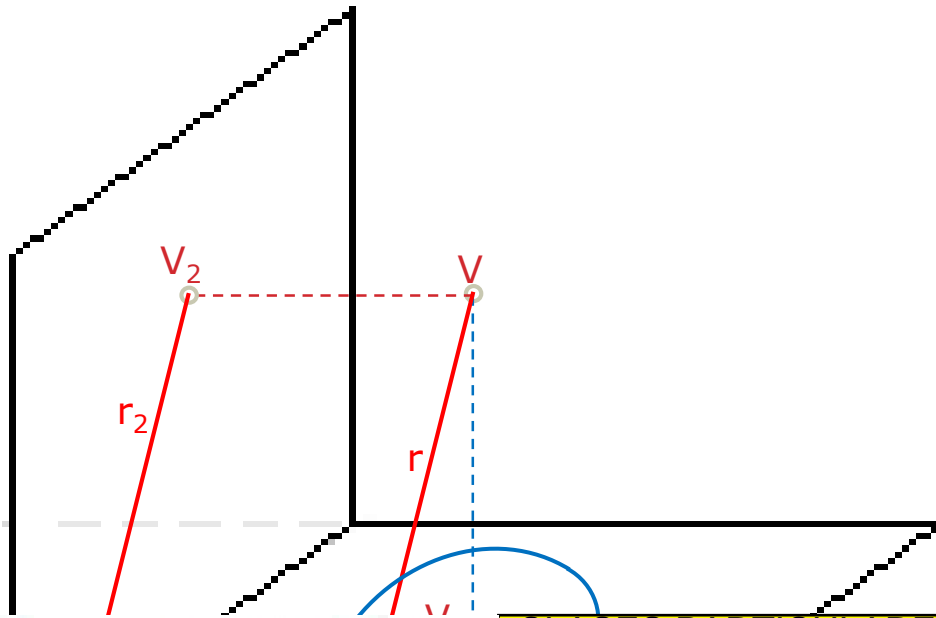
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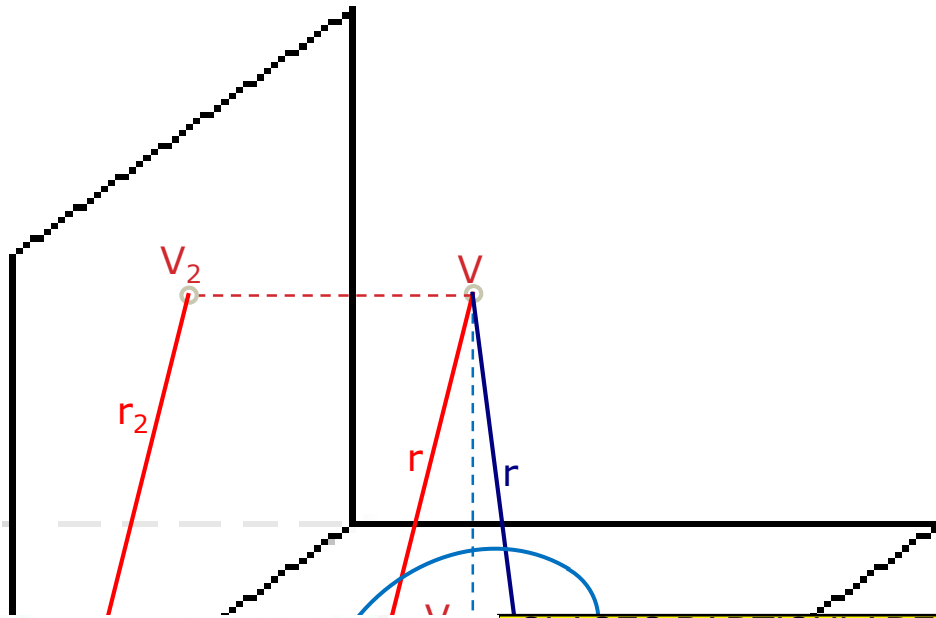
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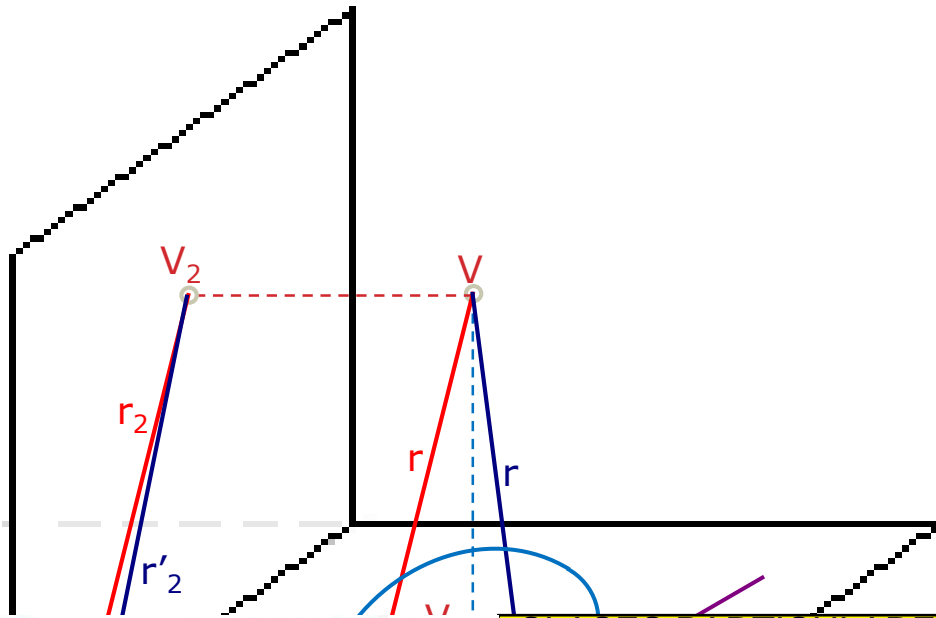
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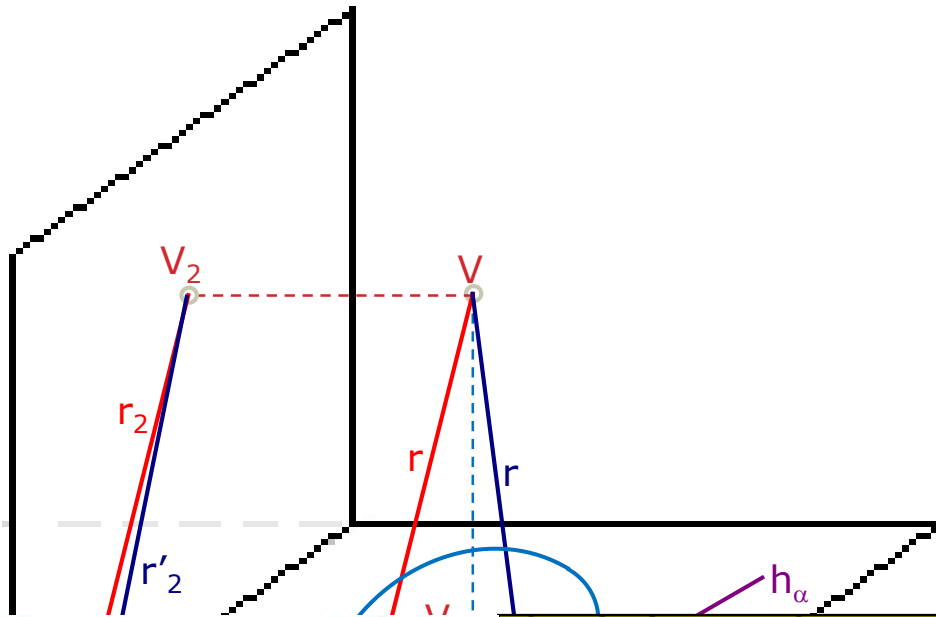
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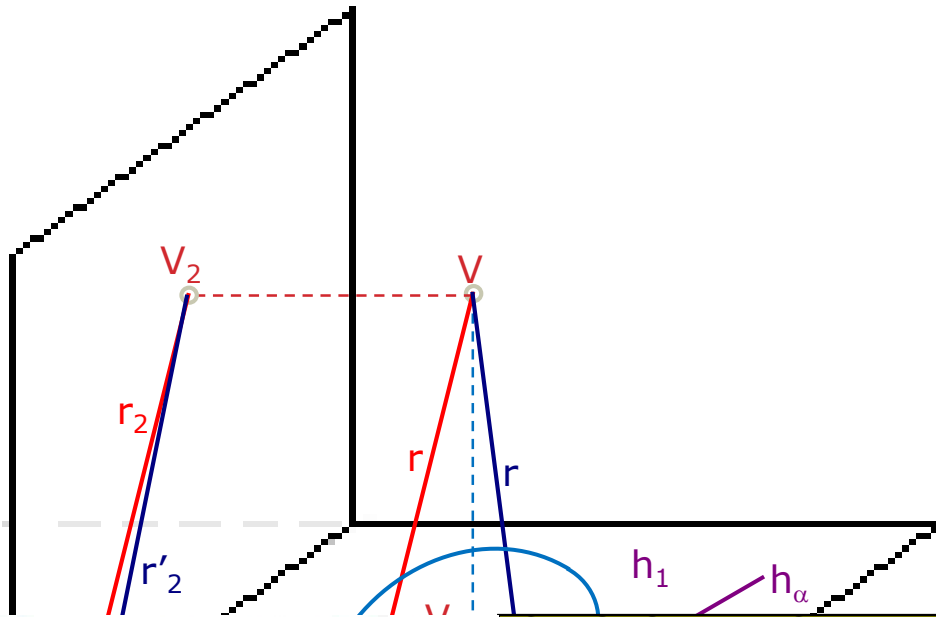
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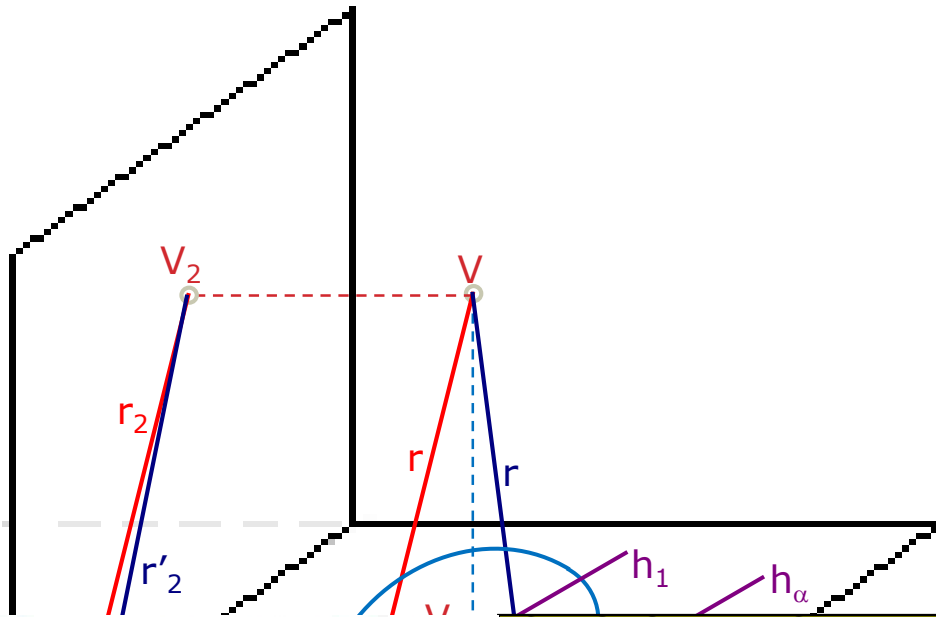
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- Construction of lines and planes that form a certain angle θ with the horizontal plane and passes through point V.



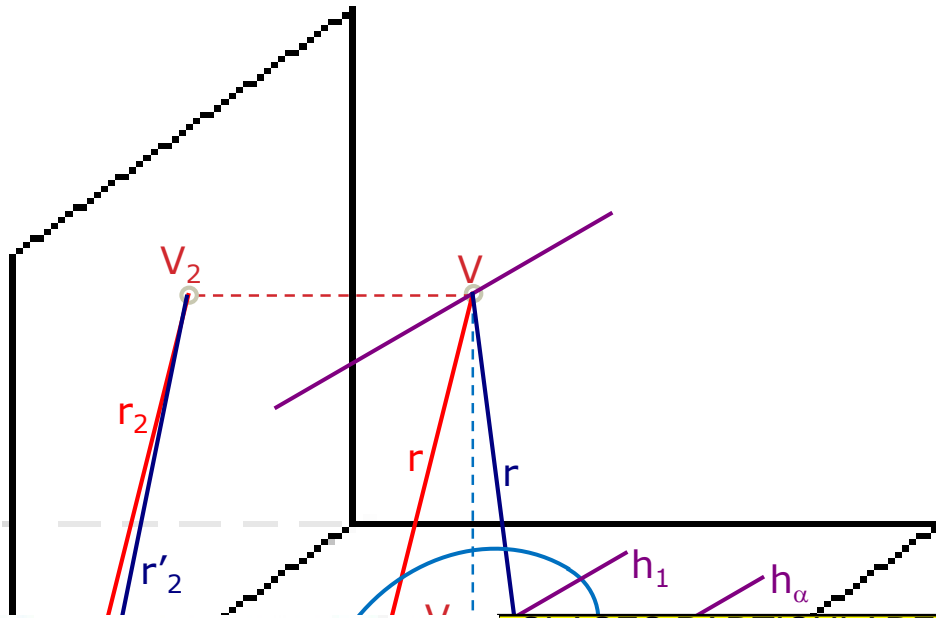
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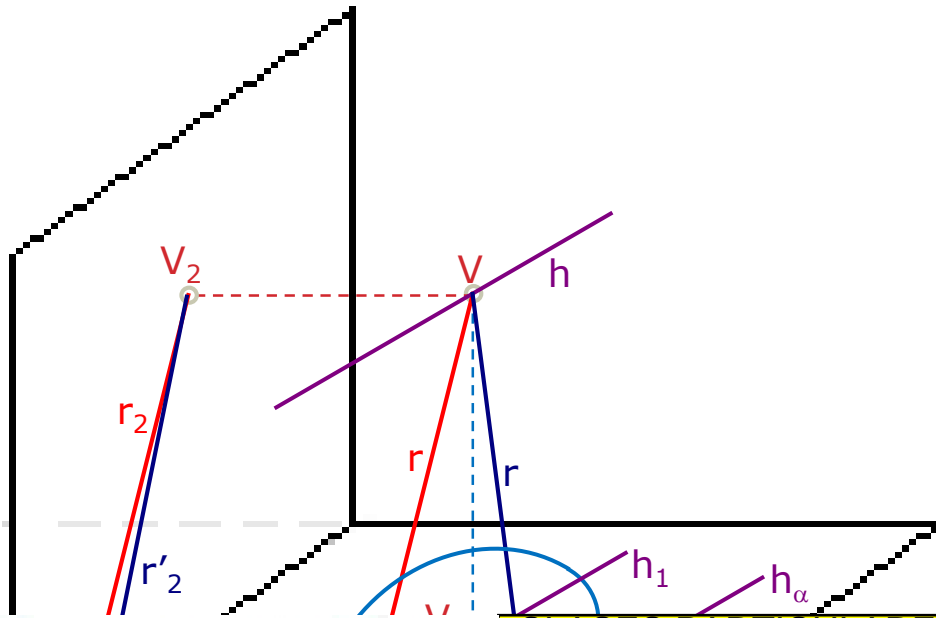
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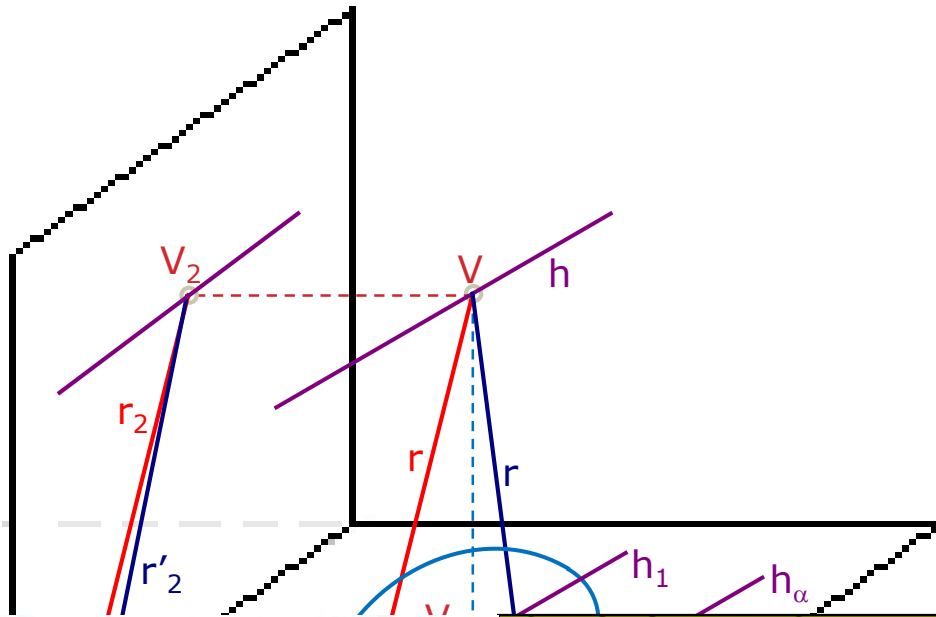
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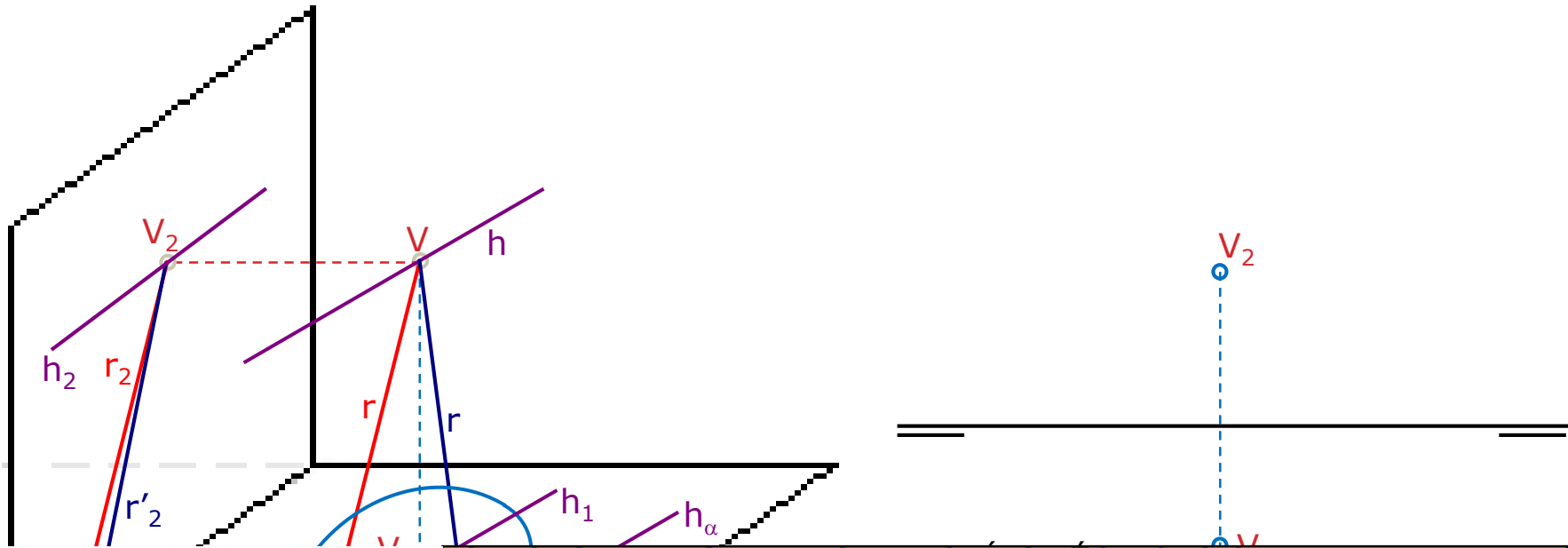
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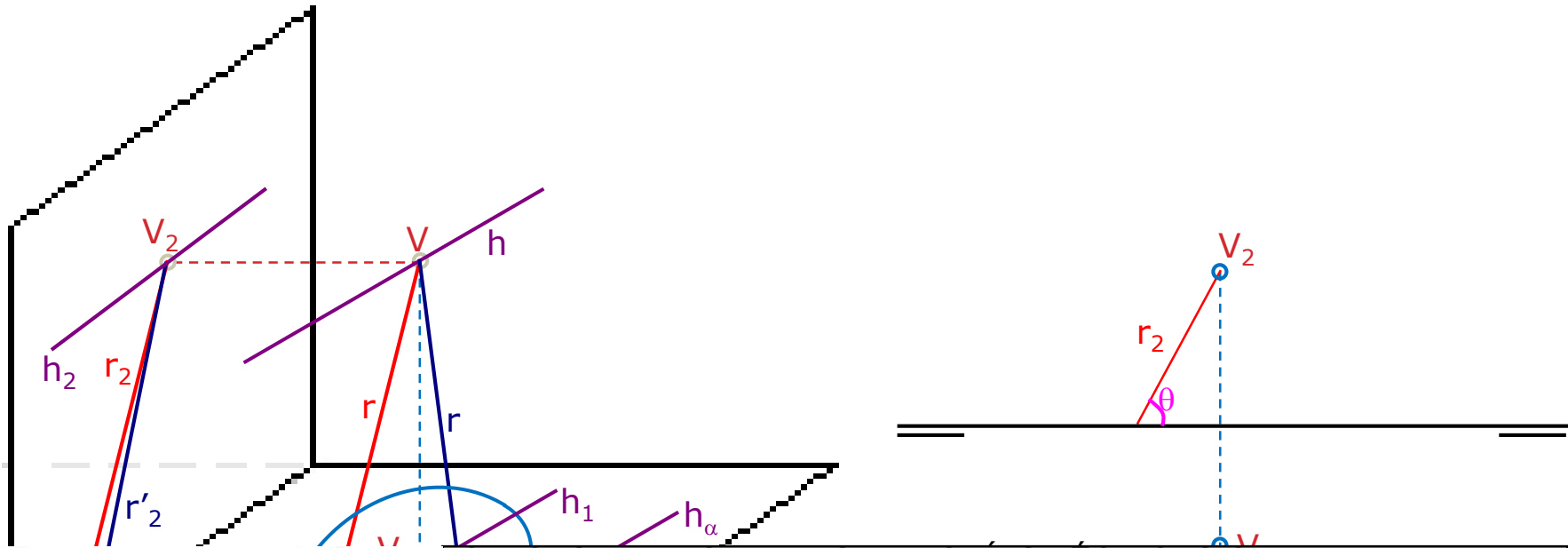
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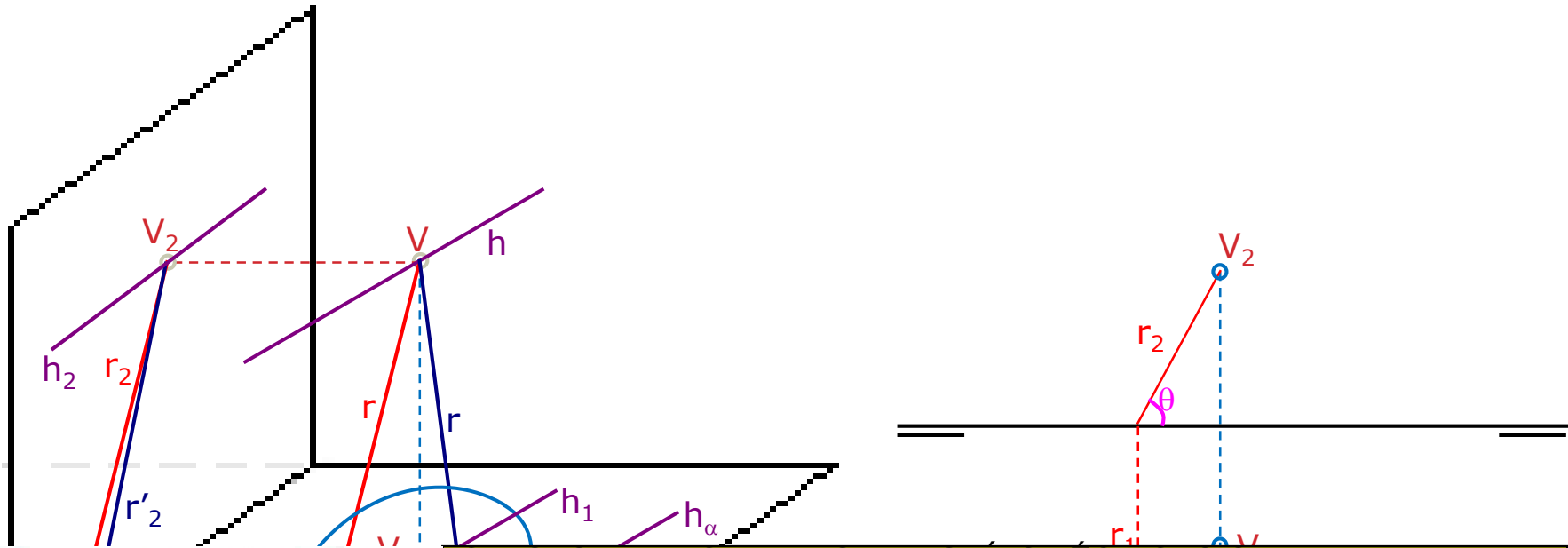
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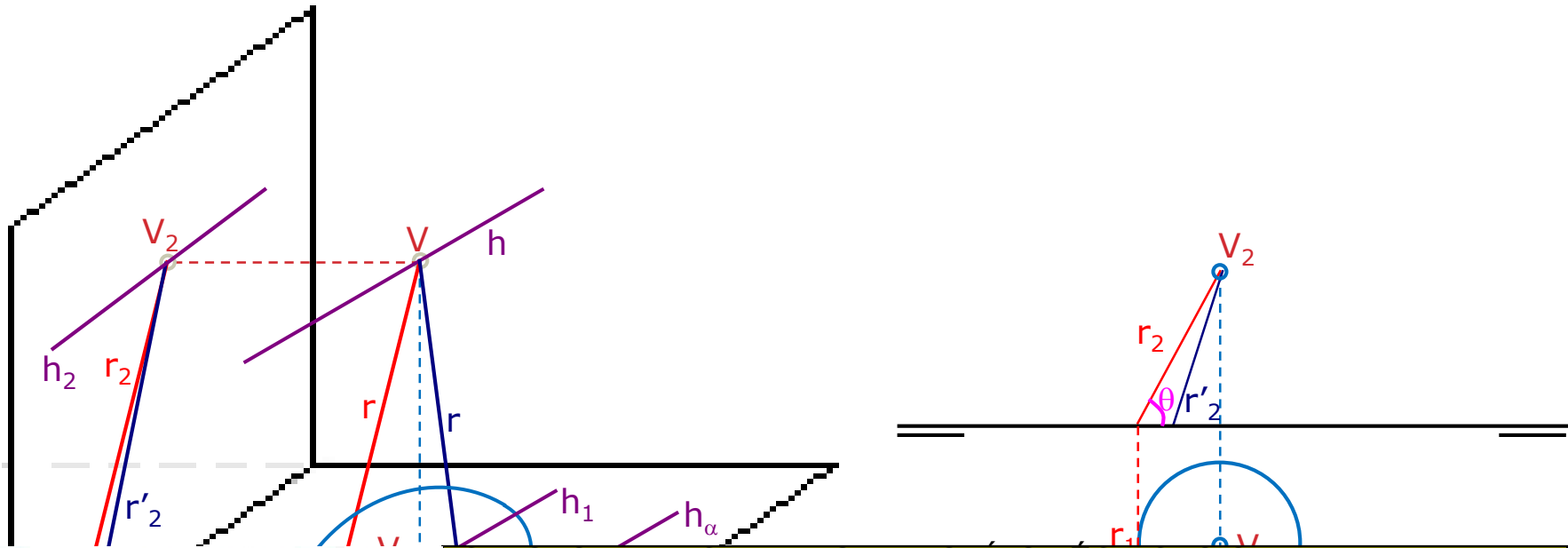
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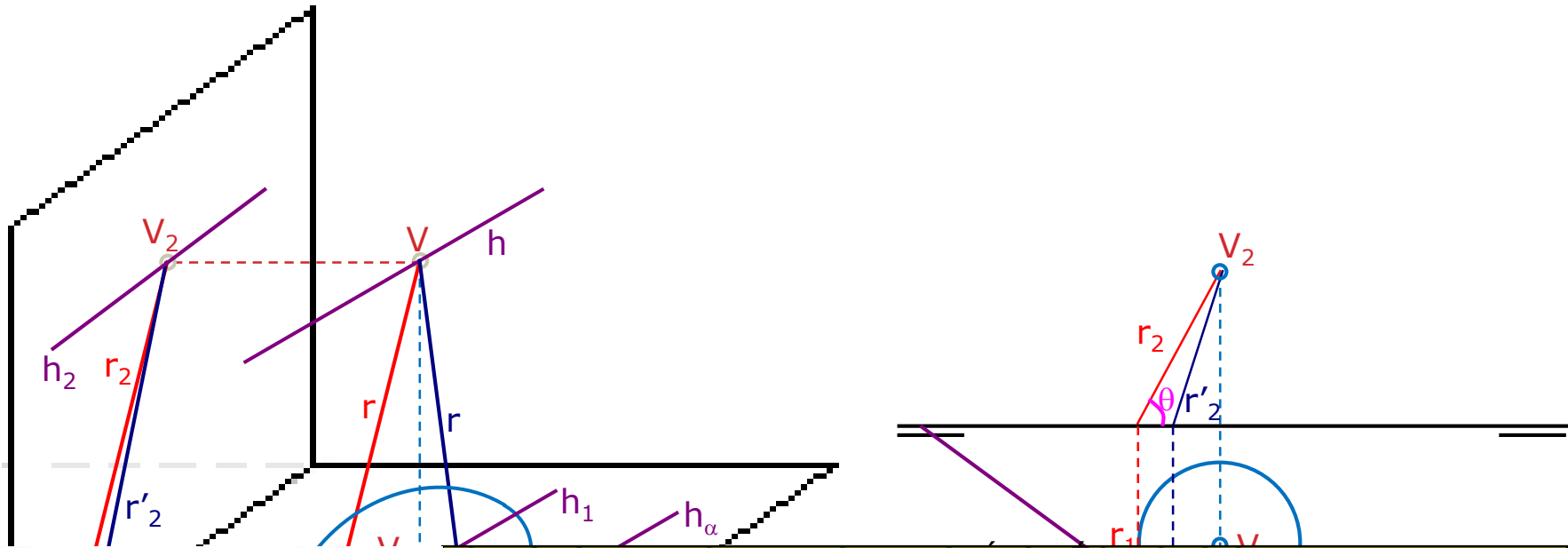
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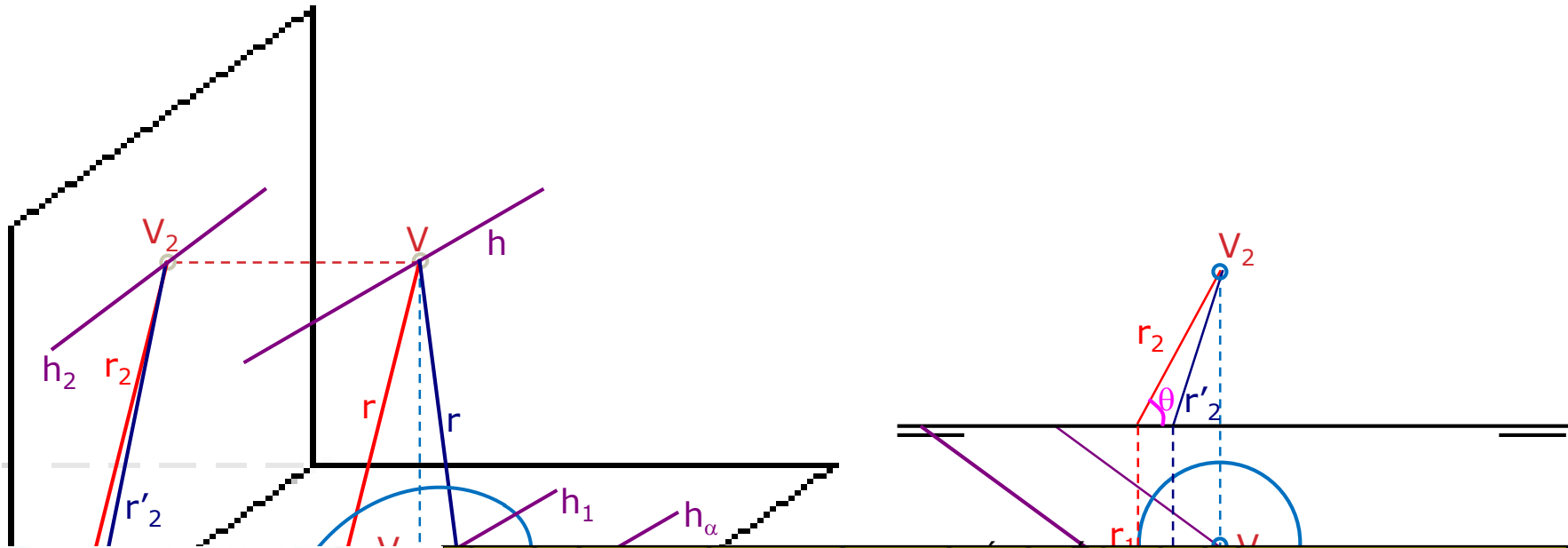
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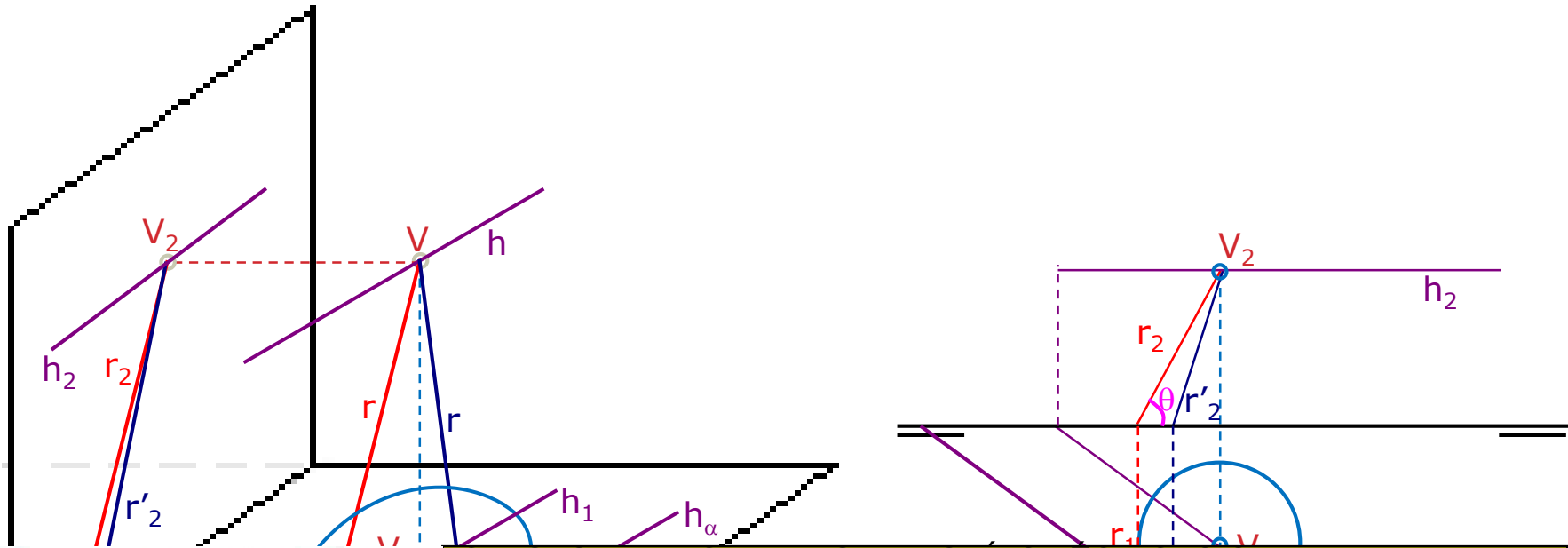
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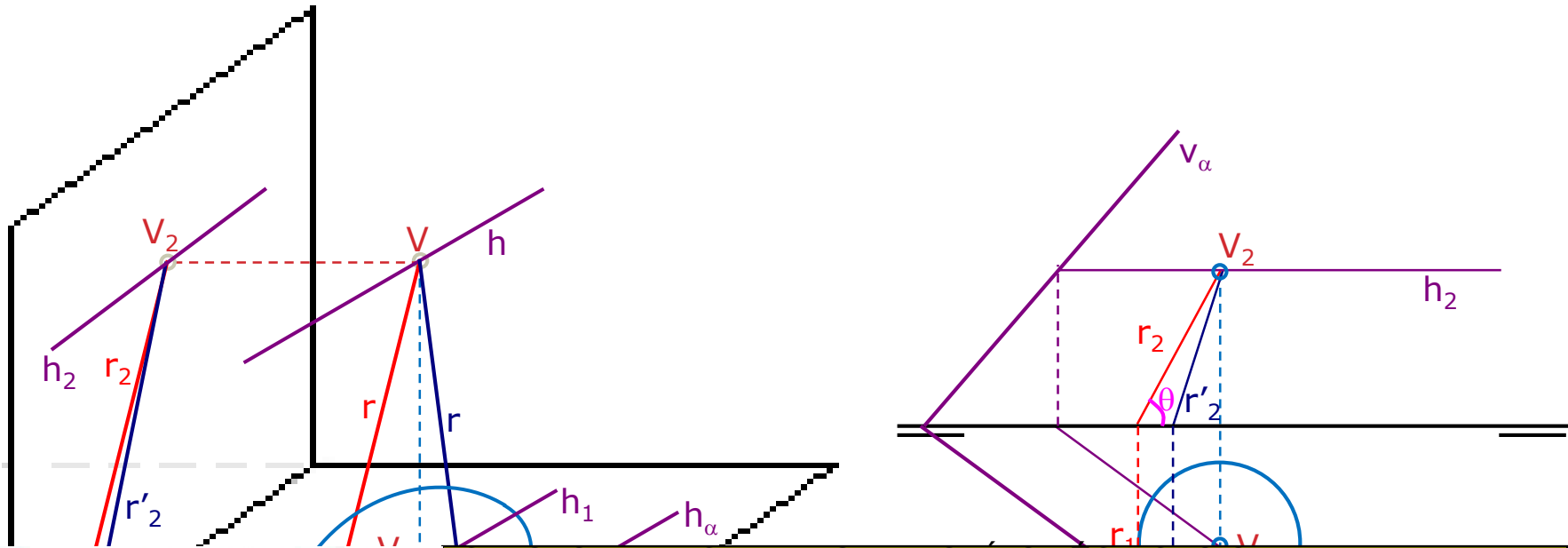
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