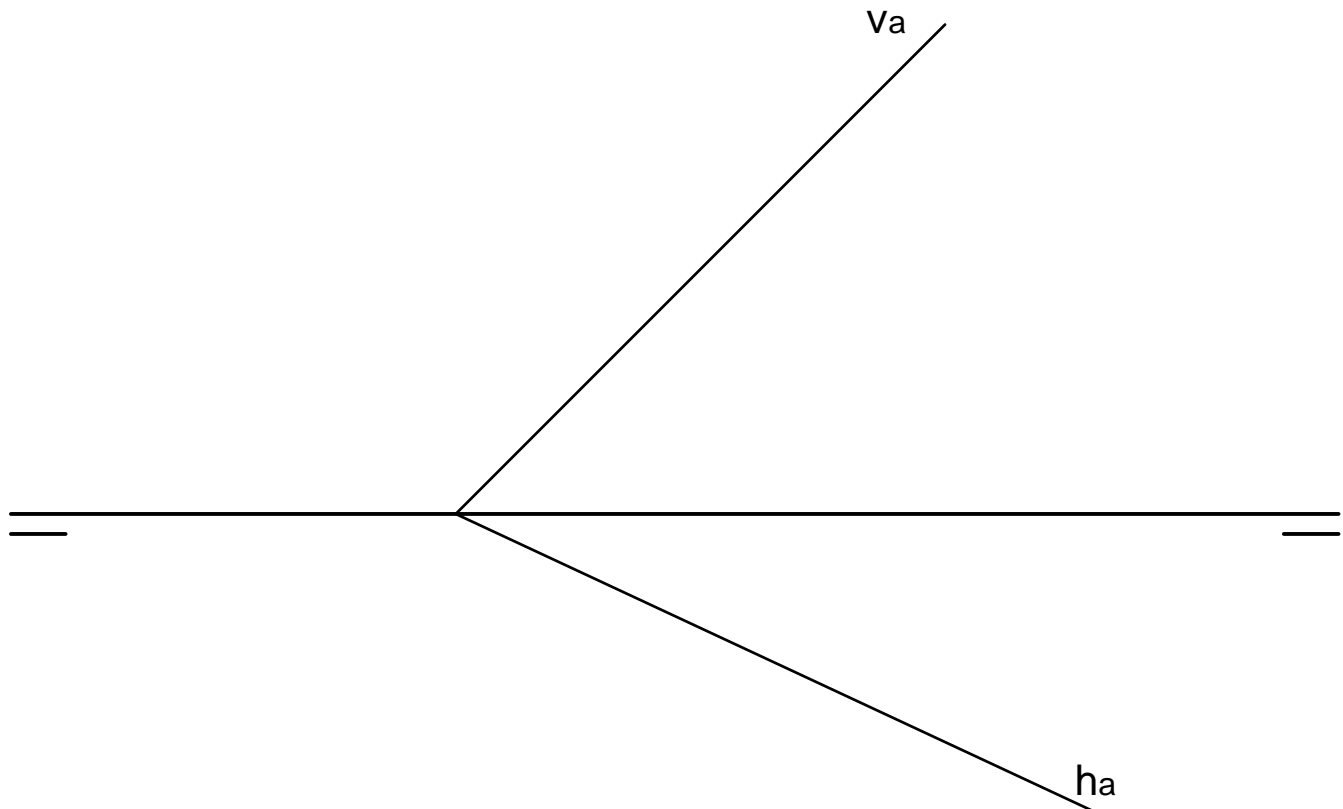




1. Consider a pyramid with equilateral triangular basement of 30 mm length each side and supported by plane a. The distance between the top vertex and any of the ones of the basement is 40 mm.
- By means of fold line method, find the dihedral projections of the basement.
  - By means of differences in height, place the top vertex.
  - Select the solution in which the top vertex has the biggest possible height.



Cartagena99

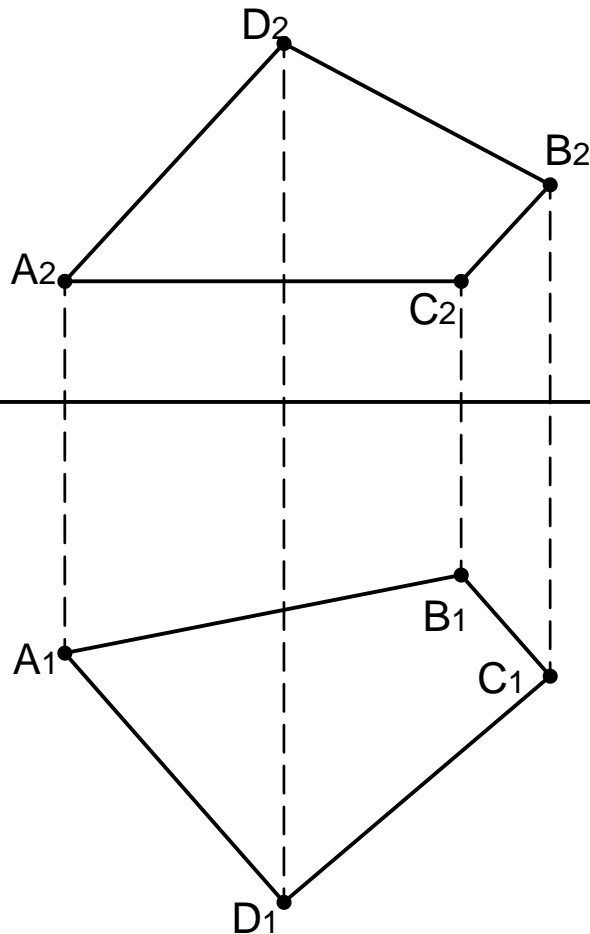
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2. Find the distance between the parallel faces of the trapezium whose projections are shown. Use the procedure which is employed for finding the distance between parallel lines.



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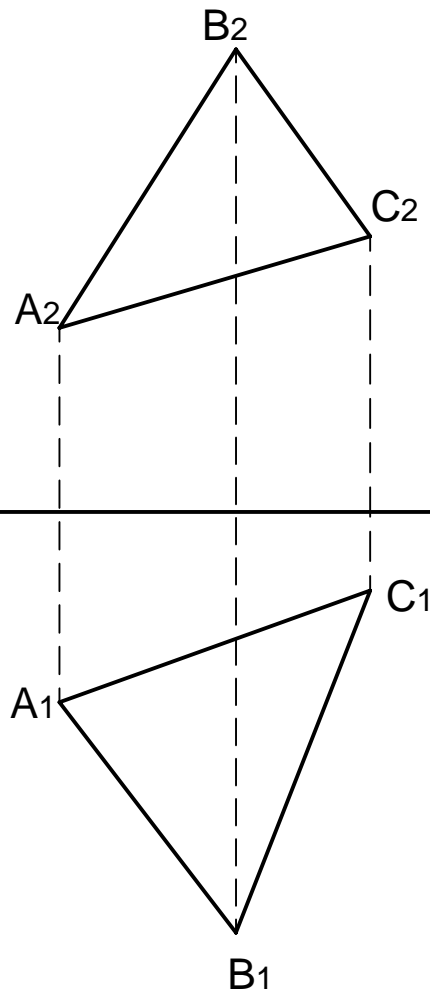
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3. Given the triangle, find the height over side AB.



Cartagena99

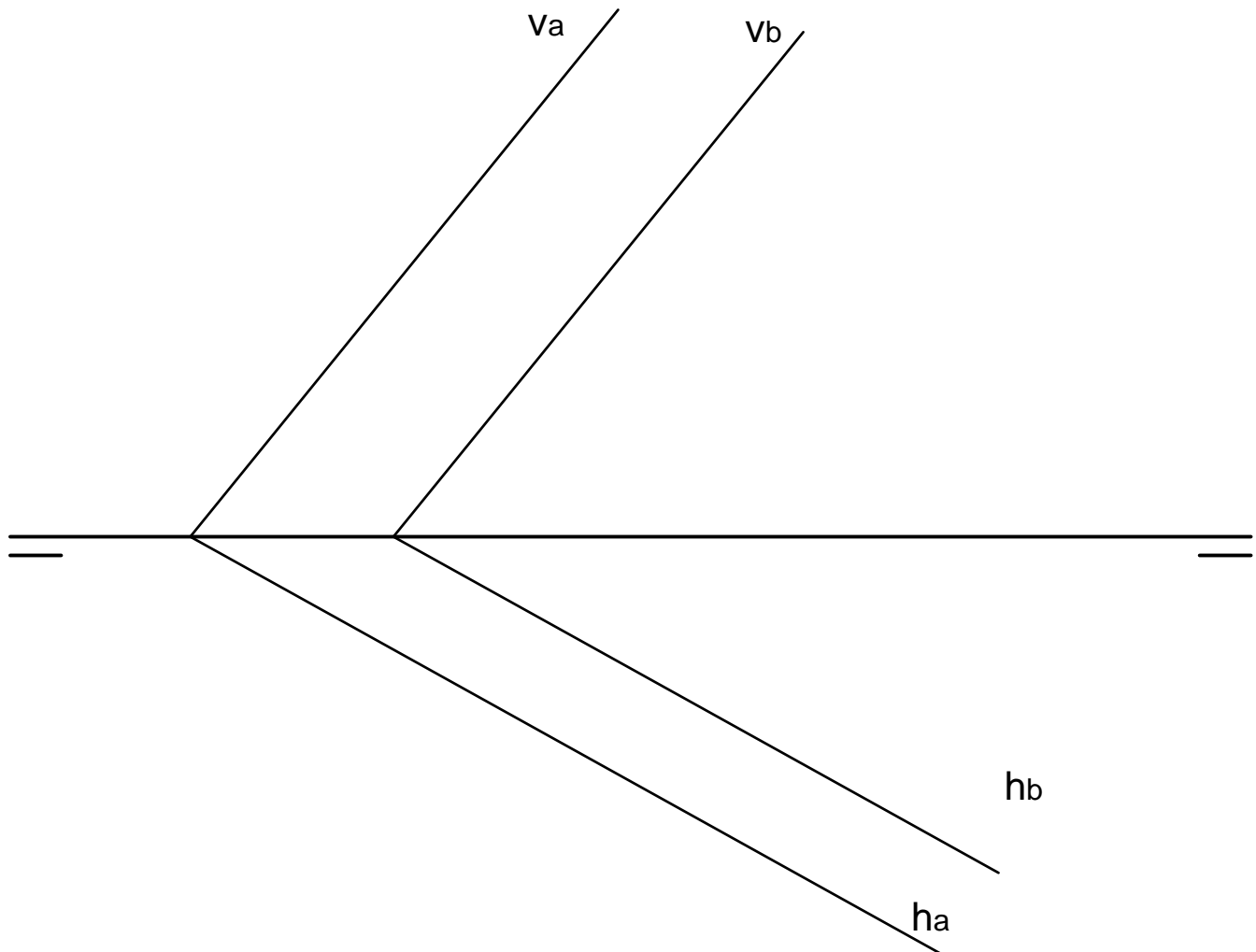
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4. Planes a and b represent the faces of two objects between which a bearing is going to be placed. Find the maximum thickness the bearing can have.



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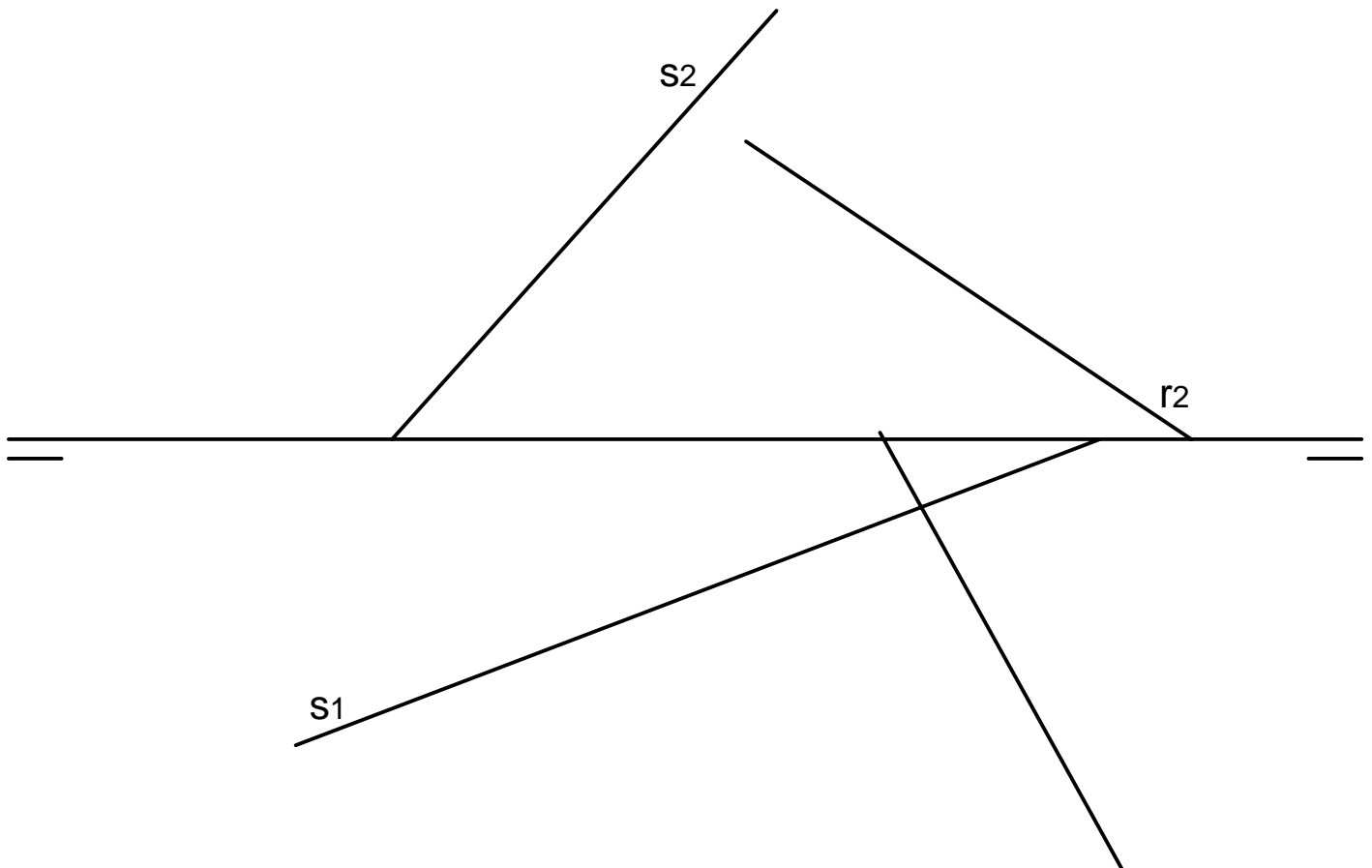
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5. Consider an installation where two pipes (represented by lines  $r$  and  $s$ ) must be connected by means of a third one. Find the minimum length of the third pipe and the points between which it has to be installed.



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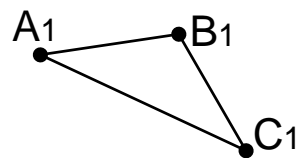
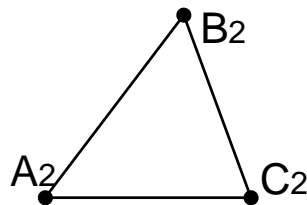
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6. Given the triangle, find the angle between the plane that contains it and the projection planes



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