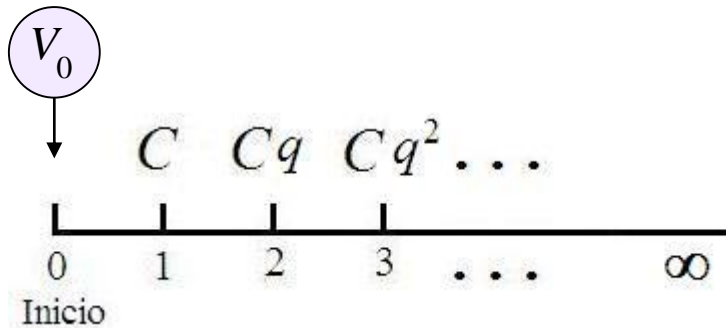


Overview of a Geometric Perpetual Ordinary Annuity



$$V_0 = C(1+i)^{-1} + Cq(1+i)^{-2} + Cq^2(1+i)^{-3} + \dots$$

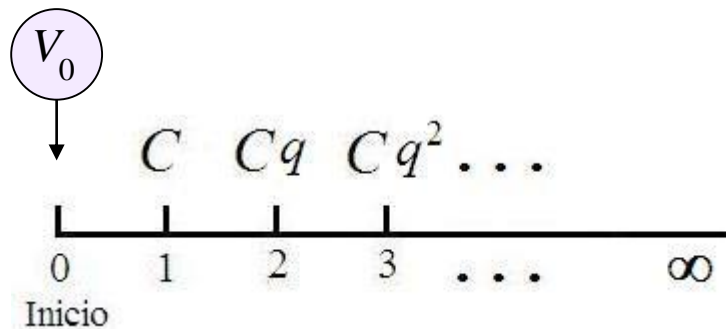
$$V_0 = \lim_{n \rightarrow \infty} C \cdot a_{(1,q)\overline{n}|i} = \begin{cases} \lim_{n \rightarrow \infty} C \frac{1 - \left(\frac{q}{1+i}\right)^n}{1+i-q} & 1+i \neq q \\ \lim_{n \rightarrow \infty} Cn(1+i)^{-1} & 1+i \leq q \end{cases} = \begin{cases} C \frac{1}{1+i-q} & 1+i > q \\ \infty & 1+i < q \\ \infty & 1+i = q \end{cases}$$

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Overview of a Geometric Perpetual ordinary Annuity



$$V_0 = C(1+i)^{-1} + Cq(1+i)^{-2} + Cq^2(1+i)^{-3} + \dots$$

PRESENT VALUE

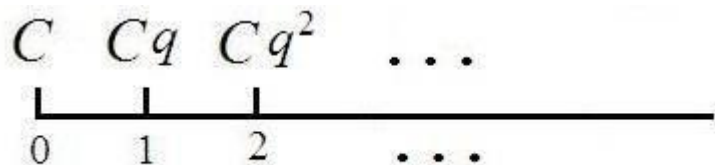
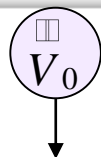
$$V_0 = C \cdot a_{(1,q)\overline{\infty}|i} = \begin{cases} C \frac{1}{1+i-q} & \text{si } 1+i > q \\ \infty & \text{si } 1+i \leq q \end{cases}$$

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Overview of a Geometric Perpetual Annuity Due



$$\ddot{V}_0 = C + Cq(1+i)^{-1} + Cq^2(1+i)^{-2} + \dots$$

$$\ddot{V}_0 = (1+i)V_0$$

PRESENT VALUE

$$\ddot{V}_0 = C \cdot \ddot{a}_{(1,q)\overline{\infty}|i} = \begin{cases} C \frac{1}{1+i-q} (1+i) & \text{si } 1+i > q \\ \dots & \dots \end{cases}$$

Property

$$\ddot{a}_{(C,q)\overline{\infty}|i} = a_{(C,q)\overline{\infty}|i} (1+i)$$

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