

19,7 W

باستخدام تكليف سماره 14:

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$$d = \frac{1}{\frac{1}{r}} = r \quad a_n = a_1 r^{n-1} \rightarrow a_{10} = \frac{1}{r} \times r^9 = 19.7$$

$$\frac{a_{10}}{a_1} = \frac{a_1 \times r^{10}}{a_1 \times r^1} = \frac{\frac{1}{r} \times r^{10}}{\frac{1}{r} \times r^1} = r^9 = 19.7$$

$$a_1 = a_1 \times r^1 = \frac{1}{r} \times r^1 = 1 \quad a_{10} = a_1 \times r^9 = \frac{1}{r} \times r^9 = 19.7 \Rightarrow 1.97 \times r = a_{10}$$

$$a_{10} = \sqrt{1.97} = 1.4$$

$$\text{بما أن } a_n = \frac{1}{r} \times r^{n-1} \rightarrow \frac{1}{r} \times r^{n-1} = 19.7 \rightarrow r^{n-1} = 19.7 \times r = r^1 \Rightarrow n-1=1, n=2$$

$$a_1 = 1, a_{10} = 19.7 \quad \frac{a_m}{a_n} = r^{m-n} \rightarrow \frac{19.7}{1} = r^9 \rightarrow r^9 = 19.7 \Rightarrow r = 1.4$$

$$a_1 = 1 \rightarrow a_{10} = 1 \times 1.4 = 1.4 \rightarrow a_{10} = 1.4 \times 1.4 = 1.96$$

