Related Questions with Solutions

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Questions
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Quetion: 01

In a geometric progression consisting of positive terms, each term equals the sum of the next two terms. Then the common ratio of this progression is equal to $A_{1}\sqrt{5}$

A. $\sqrt{5}$ B. $\frac{1}{2}(\sqrt{5}-1)$ C. $\frac{1}{2}(1-\sqrt{5})$ D. $\frac{1}{2}\sqrt{5}$

Solutions

Solution: 01

Given, $a = ar + ar^2 \Rightarrow r^2 + r - 1 = 0$ $\Rightarrow r = \frac{-1 \pm \sqrt{5}}{2} \Rightarrow r = \frac{\sqrt{5} - 1}{2}$ G.P. contains positive terms]

Correct Options

Answer:01 Correct Options: B