

$$\frac{\frac{1+\sqrt{5}}{2}n}{\frac{1}{2}n} = \frac{1+\sqrt{5}}{1}$$

$$b^r = \frac{1+\sqrt{5}}{2} a^r \Rightarrow \frac{a^r}{b^r} = \frac{\sqrt{5}-1}{2}$$

$$9a^r - 12a + 1 = 2a^r + 1a \Rightarrow 7a^r - 13a + 1 = 0$$

$$\Rightarrow a = \frac{13 \pm \sqrt{169-28}}{14} = \frac{13 \pm \sqrt{141}}{14} \Rightarrow \frac{a+1}{c} = \frac{7 \pm \sqrt{141}}{14} = \frac{1}{2}$$

$$\sqrt{n+1} \left(\frac{1}{\sqrt{n+1}+2} - \frac{1}{2-\sqrt{n-1}} \right)$$

$$\Rightarrow \sqrt{n+1} \cdot \left(\frac{-2\sqrt{n-1}}{10-n} \right) = \sqrt{n-1}$$

$$\Rightarrow -2\sqrt{n+1} = 10-n \Rightarrow n^2 - 24n + 96 = 0$$

$$\Rightarrow n = \frac{24 \pm \sqrt{576-384}}{2} \Rightarrow n = 12 \pm 4\sqrt{3}$$

$$\frac{z-2+z+2}{z^2-4} = \frac{z}{2} \Rightarrow z^2 = 16 \Rightarrow z = \pm 4$$

$$\Rightarrow \sqrt{2-n} = \sqrt{16} \Rightarrow n = -14$$

$$\frac{1}{n^r} + \frac{1}{(n+1)^r} = \frac{14}{9} \Rightarrow \frac{2n^r - 2n+1}{n^r(n+1)^r} = \frac{14}{9}$$

$$\Rightarrow \left(\frac{2n+1}{2} \right)^r = 9.49 \Rightarrow \begin{cases} 2 = \frac{5}{2} \rightarrow n^2 - n - \frac{r}{12} = 0 \\ 2 = -\frac{5}{2} \rightarrow \end{cases}$$

$$\Rightarrow 1+1=2$$

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$$\begin{aligned} 4m+2 &= -m+17 \Rightarrow m=2 \text{ جواب} \\ -m+17 &= 9 \Rightarrow m=8 \text{ جواب} \\ -2m-1 &= -\frac{1}{2}m + \frac{17}{2} \Rightarrow m=-6 \text{ جواب} \\ \Rightarrow \sqrt{6^2+(-2)^2} &= \sqrt{40} \end{aligned}$$

$$\begin{aligned} |m-2| &\begin{cases} m-2 = \frac{1}{2}m+2 \Rightarrow \frac{1}{2}m=4 \Rightarrow m=8, y=4 \\ m-2 = \frac{1}{2}m-2 \Rightarrow \frac{1}{2}m=0 \Rightarrow m=0, y=2 \\ m=2, y=0 \end{cases} \end{aligned}$$

$$\begin{aligned} &\begin{matrix} \wedge \\ 4 \end{matrix} \quad \begin{matrix} \vee \\ 0 \\ 2 \end{matrix} \quad \begin{matrix} \vee \\ 2 \\ 0 \end{matrix} \quad \begin{matrix} \vee \\ 1 \end{matrix} \end{aligned}$$

$$\Rightarrow 16+12=28 \quad \text{بند کسری} \quad \Rightarrow \frac{28-6}{2} = 11$$

m

$m+9$

$$\frac{m^2+9m}{m+9} = 20 \Rightarrow m=24$$

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