

۱۸، ۷۵

گیتا عقیقی پور  
(سوال ۱)

$$\frac{\omega x + a}{fx} = \frac{1 + \sqrt{\omega}}{p}$$

$$10x + pa = px + p\sqrt{\omega} x$$

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$$\frac{S_1}{S_2} = \frac{(p + p\sqrt{\omega})x}{fx} = \frac{p(1 + \sqrt{\omega})}{\omega}$$

$$4x - p\sqrt{\omega} x = -pa \Rightarrow a = (p\sqrt{\omega} - 4)x$$

$$\text{قطر} = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$\frac{1 + \sqrt{\omega}}{p} = \frac{\sqrt{x^2 + y^2}}{x}$$

$$\frac{x^2}{y^2} = ?$$

(سوال ۲)

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$$x + \sqrt{\omega} x = p\sqrt{x^2 + y^2} \quad 4x^2 + p\sqrt{\omega} x^2 = px^2 + py^2$$

$$\frac{\sqrt{x^2 + y^2}}{x} = \frac{\sqrt{\omega} + 1}{p} \Rightarrow \frac{x^2 + y^2}{x^2} = \frac{p^2(\omega + 1)}{p^2} \Rightarrow \frac{y^2}{x^2} = \frac{1 + \sqrt{\omega}}{2} \Rightarrow \frac{x^2}{y^2} = \frac{2}{1 + \sqrt{\omega}}$$

$$p - 3a = \sqrt{pa^2 + ka} \Rightarrow k + 9a^2 - 14a = pa^2 + ka$$

(سوال ۳)

$$va^2 - 14a + k = 0 \Rightarrow \frac{1}{v} = p \Rightarrow \text{قرار دادن در محاسبه}$$

$$\frac{9}{\frac{v}{\sqrt{v}}} = \frac{9}{p} = \frac{4}{5}$$

$$a^2 - 14a + (2 \times 2 \times v) = 0$$

$$\frac{2}{\sqrt{v}} \sqrt{v} = a$$

$$\frac{\sqrt{x+1}}{\sqrt{x-1} + 3} + \frac{\sqrt{x+1}}{\sqrt{x-1} - 3} = \frac{x-1}{\sqrt{x-1}}$$

$$x > -1 \Rightarrow x > 1$$

(سوال ۴)

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$$x(\sqrt{x-1} - 3) \quad \sqrt{x-1} = t$$

$$\frac{\sqrt{x-1}}{\sqrt{x-1} + 3} = \frac{(\sqrt{x+1})(\sqrt{x-1} - 3) + (\sqrt{x+1})(\sqrt{x-1} + 3)}{x-10} = \frac{\sqrt{x+1}(\sqrt{x-1} - 3 + \sqrt{x-1} + 3)}{x-10} = \frac{2\sqrt{x+1}\sqrt{x-1}}{x-10} = \sqrt{x-1}$$

$$p\sqrt{x-10} = p\sqrt{x+1} \Rightarrow x^2 - 10x + 100 = px + p$$

$$x^2 - px + 90 = 0$$

$$x - 10 > 0 \Rightarrow x > 10$$

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۱۲-۴۰ پس ۱۲-۴۰ قبل از ۱۲-۴۰ باشد و ۱۲-۴۰ مثبت دارد.

۱۰-۱۲-۴۰-۱۲-۴۰

$$\frac{1}{t} + \frac{1}{t-1} = \frac{t}{\omega} \quad n \neq 1, n \neq 2$$

(سوال 5)

$$\frac{t}{t-1} = \frac{t}{\omega}$$

$$t^2 - 1 = 1. t$$

$$t^2 - 1 = 0 \Rightarrow t(t-1) = 0$$

$$0 + \sqrt{1} - \sqrt{1} = \sqrt{1-1} \Rightarrow \omega = -12$$

عقود  
(n=2)

نوار چون عقود

$$\frac{1}{n^2} + \frac{1}{(1-n)^2} = \frac{14}{9} \rightarrow \frac{14}{9} + \frac{14}{9} = \frac{28}{9} \rightarrow \frac{1}{\omega} = \frac{1}{\frac{28}{9}} = \frac{9}{28}$$

(سوال 9)

(1.5)

$$\omega = \frac{1}{\frac{28}{9}} = \frac{9}{28} + \frac{9}{28} = 1$$

$$t = \frac{1}{\omega} = \frac{28}{9}, \frac{1}{\omega} = \frac{28}{9} \rightarrow \frac{1}{\omega} = \frac{28}{9}$$

$$\sqrt{n^2 - n^2 + \epsilon n^2 + \epsilon n - 1} + \sqrt{n^2 + \epsilon n - 1} = n + 1$$

(سوال 7)

$$\sqrt{n^2 - n^2 + \epsilon n^2 + \epsilon n - 1} = \sqrt{n^2 + \epsilon n - 1}$$

$$\sqrt{n^2 + \epsilon n - 1} = \sqrt{n^2 + \epsilon n - 1}$$

$$\sqrt{n^2 + \epsilon n - 1} = \sqrt{n^2 + \epsilon n - 1}$$

$$\frac{14-n}{\omega} = 14 - 1 + 14 - 1$$

$$n \geq 1 \Rightarrow 14 - n = 4n + 1 \Rightarrow 14 - n = 4n + 1 \Rightarrow 14 - n = 4n + 1$$

(5)

$$\sqrt{4^2 + 1^2} = \sqrt{17} = \sqrt{17}$$

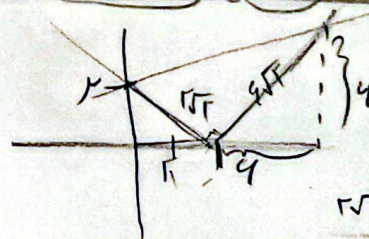
$$n > 1 \Rightarrow 14 - n = -9 \Rightarrow n = 24$$

$$n < 1 \Rightarrow 14 - n = -4n - 1 \Rightarrow n = -1, y = 1$$

$$\sqrt{n^2 - \epsilon n + \epsilon} = \sqrt{(n-1)^2} = |n-1|$$

$$|n-1| = \frac{1}{\omega} n + 1 \rightarrow$$

$$n = 0, y = 1 \quad n = 1, y = 2$$



(سوال 9)

(5)

$$\frac{17 \times 4 \times 17}{17} = 17$$

$$\frac{1}{n+9} + \frac{1}{n+9} = \frac{1}{10} \Rightarrow \frac{(n+9)(n)}{10n+9} = 10$$

(سوال 10)

$$10 \cdot n + 10 = n^2 + 9n \Rightarrow n^2 - 10n - 10 = 0 \rightarrow n = 10 \pm \sqrt{100 + 40} = 10 \pm \sqrt{140}$$

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