

پیران شریفی سی ۱۸ ام دلاس

$$\frac{21^n}{2} = \frac{n+2}{n}$$

$$\frac{d + m}{\sqrt{r}} = \frac{1 + \sqrt{5}}{r}, \quad r + r\sqrt{5} = d + m$$

$$m = r\sqrt{5} - r$$

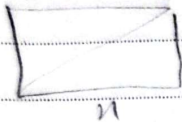
سوال ۱

$$\frac{1}{100} = \frac{1}{100} + \frac{1}{100} \quad ?$$

$$\mu_{\text{obs}} = \epsilon \chi \varepsilon = \rho$$

$$V_{\text{rms}} = (V_{\text{avg}} + V)(r)$$

$$\Delta \sqrt{\omega} + \Delta \rightarrow \frac{\Delta(\sqrt{\omega} + 1)}{\gamma_0(\omega)} = \frac{\gamma}{\omega} (1 + \sqrt{\omega})$$



سوال ۲:

$$b = \sqrt{m^2 + \alpha^2} \sim \frac{\sqrt{m^2 + \alpha^2}}{m} = \frac{1 + \sqrt{\omega}}{r}$$

$$\frac{n^P + z^P}{n^P} = \frac{1 + \alpha + P\sqrt{\omega}}{1} \Rightarrow 1 + \frac{z^P}{n^P} = \frac{1 + \alpha + P\sqrt{\omega}}{1} \Rightarrow \frac{z^P}{n^P} = \frac{1 + \alpha + P\sqrt{\omega}}{1} - 1 = \frac{\alpha + P\sqrt{\omega}}{1}$$

$$\frac{2P}{2r} = \frac{P}{1 + \sqrt{10}}$$

سوال ۳:

$$P_a + \sqrt{P_a^2 + E_a} = P \Rightarrow \sqrt{P_a^2 + E_a} = P - P_a$$

$$P_{a^2} \circ \epsilon_a : \epsilon_a^* - \text{Ka}$$

$$V a^T \cdot k^T a + c = 0 \Rightarrow \Delta = 109 \cdot 112 = 12188$$

$$\frac{a+1}{a} = \frac{\frac{1}{v} + 1}{\frac{1}{v}} = \frac{1+v}{1}$$

$$\frac{+14 \pm 1P}{1P} \begin{cases} P \rightarrow 4 + \sqrt{1+1} = 5.50 \\ \frac{P}{V} \rightarrow \frac{4}{V} + \sqrt{\frac{1}{V^2} + \frac{1}{V}} = 1 \checkmark \end{cases}$$

$$\sqrt{n+1} - \sqrt{n} = \frac{1}{\sqrt{n+1} + \sqrt{n}}$$

$$\sqrt{1+\sqrt{n-1}} \quad \sqrt{1-\sqrt{n-1}} \quad \sqrt{n-1}$$

سوال نمبر:

$$\frac{\sqrt{n+1} (1 - \sqrt{n-1}) - (\sqrt{n+1} (1 + \sqrt{n-1}))}{9 - (n-1)} = \frac{n-1}{\sqrt{n-1}} = \frac{-2\sqrt{n+1}(n-1) - \sqrt{n-1}(n-1)}{190 - n}$$

$$+16(n-1) = 16\sqrt{n-1} \Rightarrow f(n+1) = 16(n+1) - 16\sqrt{n+1} = 16(n+1) - 16\sqrt{n+1}$$

$$n^2 - 4em - 99 = 0 \Rightarrow n = 10 \Rightarrow \Delta = 100 - 396 = -296 = 19^2$$

$$\frac{+K_F \pm \sqrt{K_F^2 - 4K_F}}{2} \rightarrow K_F - \sqrt{K_F} \quad (9)$$

Arman

$n = 100$
فرض

$$\frac{1}{r + \sqrt{r-n}} - \frac{1}{r - \sqrt{r-n}} = \frac{r-n}{\omega \sqrt{r-n}}$$

سوال ٥:
??

$$\frac{r - \sqrt{r-n} - r + \sqrt{r-n}}{r^2 - r + n} = \frac{r-n}{\omega \sqrt{r-n}} \rightarrow -\sqrt{r-n} \times (\omega \sqrt{r-n}) = \varepsilon - n^2$$

$$-10(r-n) = \varepsilon - n^2$$

$$n^2 - r^2 + 10n = 0 \quad \Delta = 100 - 4 \times 1 = 96 = 192$$

$$n = \frac{-10 \pm \sqrt{192}}{2} = \frac{-10 \pm 13.85}{2} \rightarrow -12 \checkmark \quad -10(12) = \varepsilon - 144 \checkmark$$

عقود
التي

$$\frac{1}{n^2} + \frac{1}{(1-n)^2} = \frac{140}{9} \quad A = n(1-n)$$

سوال ٦:

$$\frac{r^2 + 1 - 2n}{n^2(1-n)^2} = \frac{140}{9} \rightarrow \frac{r^2 + 1 - 2n}{n^2(1-n)^2} = \frac{140}{9}$$

$$9 - 18n + 140n^2 = 0 \rightarrow 140n^2 - 18n + 9 = 0 \quad \Delta = 324 - 4 \times 140 \times 9 = 324 - 5040 = -4716 \rightarrow \sqrt{4716}$$

$$\frac{18 \pm \sqrt{4716}}{2 \times 140} = \frac{-18 \pm \sqrt{4716}}{280} = n(1-n) \rightarrow n^2 - n = \frac{-18 \pm \sqrt{4716}}{280}$$

$$140n^2 - 140n + 18 \pm \sqrt{4716} = 0$$

$$\frac{10 \pm \sqrt{4716}}{280} + \frac{10 \pm \sqrt{4716}}{280} = \frac{r \times r}{r^2} = \frac{r}{r}$$

$$n \geq 0$$

$$\sqrt{n^2 + \varepsilon n^2 + 10n - 100} + \sqrt{n^2 + \varepsilon n^2 + 4n - 1} = n + r$$

$$n^2 + \varepsilon n^2 + 4n - 1 \geq 0$$

$$-n^2 + \varepsilon n^2 + 4n - 100 \geq 0$$

$$-(n^2 - \varepsilon n^2 - 4n + 100) \geq 0$$

$$\omega = 4n - \varepsilon = n \quad \varepsilon = n \quad \omega = n \quad (4n)(n-4)(n-\varepsilon) \geq 0$$

$$\begin{array}{c} n \geq -1 \\ -\omega \quad \varepsilon \quad \omega \quad (-\omega - \varepsilon) \quad \varepsilon \quad \omega \\ + \quad - \quad + \quad - \quad + \quad - \end{array}$$

$$-n^2 + 4n - 1 \geq 0 \quad (n-2)(n-1) \geq 0 \rightarrow \frac{+}{-} \frac{+}{-} \rightarrow [2, 1]$$

$$\omega = 4n - \varepsilon = n \quad \varepsilon = n$$

$$y = |n+2| + |n-1|$$

$\begin{matrix} \nearrow n=-2 \\ \searrow n=1 \end{matrix}$

$$-n-2-n+1 \quad n \leq -1$$

$$-2n-1$$

$$|n+2-n+1| = 3 \quad -2 < n < 1$$

$$|n+2-n-1| = |n+1| \quad n \geq 1$$

$$2n+1 = 3 \rightarrow n = 1 \quad y = -\frac{n}{2} + \frac{1}{2}$$

$$-2n-1 = -\frac{n}{2} + \frac{1}{2} \rightarrow -4n-2 = -n+1 \rightarrow -3n=3 \rightarrow n=-1 \quad y=2$$

$$y = -\frac{n}{2} + \frac{1}{2} \rightarrow 9 = -n+1 \rightarrow n = -8 \quad y = 4$$

$$2n+1 = -\frac{n}{2} + \frac{1}{2} \rightarrow 4n+2 = -n+1 \rightarrow 5n = -1 \rightarrow n = -\frac{1}{5} \quad y = \frac{5}{2}$$

$$AB = \sqrt{(-8-2)^2 + (4-2)^2} = \sqrt{100} = 10$$

سوال 9:

$$y = \sqrt{n^2 - 8n + 16}$$

$$(n-4)^2$$

$$y = \frac{1}{2}n + 2$$

$$y = |n-4|$$

$$-n+4 \quad n \leq 4$$

$$n-4 \quad n \geq 4$$

$$\frac{1}{2}n + 2 = n-4 \rightarrow n+4 = 2n-8 \rightarrow n = 12 \quad y = 8$$

$$\frac{1}{2}n + 2 = -n+4 \rightarrow n+4 = -2n+8 \rightarrow 3n = 4 \rightarrow n = \frac{4}{3} \quad y = \frac{10}{3}$$

$$BC = \sqrt{(4-0)^2 + (0-2)^2} = \sqrt{20} = 2\sqrt{5} \quad AC = \sqrt{(12-2)^2 + (8-0)^2} = 10$$

$$4\sqrt{5} \times 2\sqrt{5} = 40$$

$$\frac{1}{n} + \frac{1}{n+9} = \frac{1}{10}$$

سوال 10

$$\frac{n+9+n}{n(n+9)} = \frac{1}{10} \rightarrow \frac{2n+9}{n^2+9n} = \frac{1}{10}$$

$$20n + 110 = n^2 + 9n$$

$$n^2 - 11n - 110 = 0$$

$$(n-14)(n+9) = 0$$

$$\boxed{n=14} \quad n=-9$$

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