

$$\xrightarrow{111} A = \frac{\sqrt{1+\sqrt{3}} + \sqrt{\sqrt{3}-1}}{\sqrt{\sqrt{3}-1}} - 2$$

$$B = \frac{\sqrt{1+\sqrt{3}} + \sqrt{\sqrt{3}-1}}{\sqrt{\sqrt{3}-1}} \rightarrow B^2 = \frac{1+\sqrt{3}+\sqrt{3}-1+2\sqrt{\sqrt{3}-1}}{\sqrt{\sqrt{3}-1}} = \frac{2\sqrt{3}+2\sqrt{\sqrt{3}-1}}{\sqrt{\sqrt{3}-1}} = 2 \left(\frac{\sqrt{3}+\sqrt{\sqrt{3}-1}}{\sqrt{\sqrt{3}-1}} \right)$$

$$B^2 = 2 \left(\frac{\sqrt{3}+\sqrt{\sqrt{3}-1}}{\sqrt{\sqrt{3}-1}} \right) \left(\frac{\sqrt{3}+\sqrt{\sqrt{3}-1}}{\sqrt{\sqrt{3}-1}} \right) = 2(\sqrt{3}+\sqrt{\sqrt{3}-1})^2 \rightarrow B = \sqrt{2} \sqrt{(\sqrt{3}+\sqrt{\sqrt{3}-1})^2} = 2+\sqrt{6}$$

$$A = 2+\sqrt{6}-2 = \sqrt{6} \quad \text{گزینۀ اولی}$$

$$\xrightarrow{112} \left(\frac{3-n}{2}, \frac{n+3}{n} \right) \xrightarrow{\text{فقط سوال من}} \left(\frac{n+3}{n} - \frac{3-n}{2} = 2 \right) \times 2n$$

$$\rightarrow 2n+4-3n+n^2=4n$$

$$\rightarrow n^2 - 2n + 4 = 0 \rightarrow n = 2, 3 \quad \begin{cases} \forall n=2 \rightarrow \left(\frac{1}{2}, \frac{5}{2} \right) \times \\ \forall n=3 \rightarrow (0, 2) \checkmark \end{cases} \quad \text{گزینۀ اولی}$$

$$\xrightarrow{113} a, b, c \xrightarrow{\text{مقادیر}} a+b+c=18$$

$$\frac{1}{2}a + 2b + \frac{5}{2}c + a - \frac{1}{2}b = ?$$

$$\frac{3}{2}a + \frac{3}{2}b + \frac{5}{2}c = \frac{3}{2}(a+b+c) = \frac{3}{2} \times 18 = 27$$

$$\xrightarrow{114} (2a+3)x^2 + (4b-5)x + 4c + 1 < 0 \rightarrow (a, +\infty) \subset \text{جواب} \rightarrow \frac{a}{c}$$

$$\xrightarrow{\text{مقادیر}} 2a+3=0 \rightarrow a = -\frac{3}{2}$$

$$\rightarrow (4b-5)x + 4c + 1 < 0 \rightarrow (-\frac{5}{4}, +\infty) \subset \text{جواب} \quad \text{گزینۀ دوم}$$

$$\text{پس } a = -\frac{3}{2} \rightarrow -4b + \frac{15}{2} + 4c + 1 = 0 \rightarrow 4c - 4b = -\frac{17}{2}$$

$$\text{if } b=1 \rightarrow 4c = 4 - \frac{17}{2} = -\frac{9}{2} \rightarrow c = -\frac{9}{8} \rightarrow \frac{a}{c} = \frac{-\frac{3}{2}}{-\frac{9}{8}} = \frac{16}{9}$$

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115 $y = 3 - \sqrt{2x}$
 $\rightarrow$ $y = 3 - \sqrt{2(x+1)}$
 $\rightarrow$ $y = -3 + \sqrt{2x+2}$
 $\rightarrow$ $y = 2 + \sqrt{2x+2} = \frac{y}{2} \rightarrow \sqrt{2x+2} = \frac{y}{2} \rightarrow 2x+2 = \frac{y^2}{4} \rightarrow 2x = \frac{y^2}{4} - 2 \rightarrow x = \frac{y^2}{8} - 1$
 $x = \frac{1}{4}$

نیز

116 $y = x^2 - mx + 2 - m$
 $\rightarrow$ $\frac{b}{2a} = \frac{m}{2} > 0 \rightarrow m > 0$
 $\rightarrow$ $-\frac{1}{4}m^2 + 2 - m > 0 \rightarrow m^2 + 4m - 8 < 0$
 $\rightarrow$ $m \in (-8, 4)$
 $\rightarrow$ $m = 4$ نقطه
 $(0, 2\sqrt{2}-2)$
 $\rightarrow$ $m = 4$ نقطه
 $(0, 2\sqrt{2}-2)$

نیز

117 $g(1) = g(2\sqrt{2}) = 0$
 $g(x) = 0$
 $f(x) = x\sqrt{x} = 1 \rightarrow x = 1 \rightarrow |x-1| = 1$
 $f(x) = x\sqrt{x} = 2\sqrt{2} \rightarrow x = 2 \rightarrow |x-1| = 1$

نیز

118 $x^2 + x - m^2 - 1 = 0$
 $\rightarrow$ $\min(x^2 + x - m^2 - 1) = \min(1 + 2m^2 + 2) = 2m^2 + 3 \geq 3$

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نیز

119 $a-b$ ، $(a, -1)$ $\rightarrow$ $y = x - 1$ $\rightarrow$ $y = x^2 + \sqrt{b-a}x$
 $\rightarrow$ $a - 1 = -1 \rightarrow a = 0$
 $\rightarrow$ $(-1, -1) \in f \rightarrow (-1, 1) \in f$
 $\rightarrow$ $1 = 1 + \sqrt{b+1}$
 $\rightarrow$ $b = 1$
 $\rightarrow$ $a-b = 1$

120 $f(x) = \begin{cases} |x+2|+1 & ; x \leq -2 \\ -mx+am & ; x > -2 \end{cases}$
 $\rightarrow$ $-m < 0 \rightarrow m > 0$
 $\rightarrow$ $-m(-2) + am \leq 1$
 $\rightarrow$ $2m + am \leq 1$
 $\rightarrow$ $m \leq \frac{1}{2+a}$
 $\rightarrow$ $a+b = \frac{1}{2}$

گرسبھ

$$[-K] = -5$$

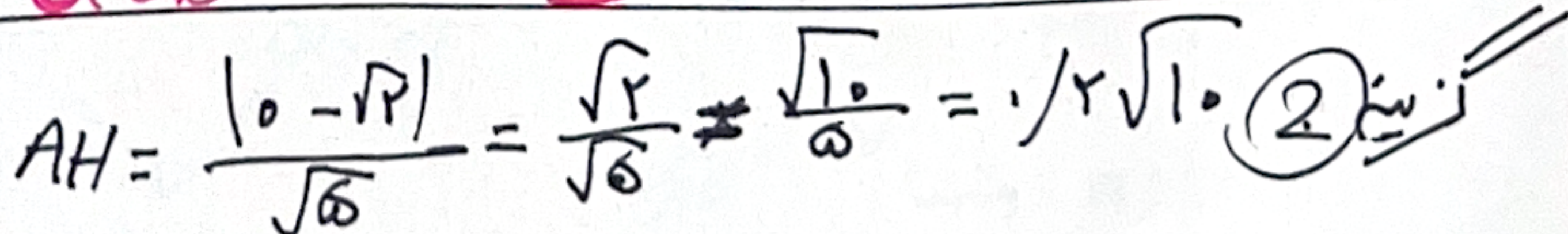
$$\div \frac{H}{2} \text{ li. } 1$$

الف

Ans: $\frac{a}{x^r} \rightarrow \frac{a}{x^r} = \frac{a}{x} \rightarrow x = \sqrt{r}$ (circled and underlined)

$$P(r) = 0 \rightarrow 1 + ra - b = 0 \rightarrow b - a = -r$$

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$$2 \times 5 \times \frac{1}{2} = 5$$

$$\frac{\sqrt{x} \cdot \omega_x \cdot \sqrt{x}}{\sqrt{x}} = \sqrt{x} \quad \text{OK.}$$

$$\frac{\Delta x}{v} \times \frac{c_f}{c_k} = c_k$$

$$\frac{\cancel{V} \times \cancel{F}}{\cancel{E}} = \cancel{E}$$

$$\frac{1}{\omega} \times \frac{\omega}{\mu} = \frac{1}{\mu}$$

$$\frac{V_X T_X O}{m} \rightarrow \frac{C_X}{m}$$

$$\frac{\cancel{A} \times \cancel{K}}{\cancel{A} \times \cancel{K}} \times \frac{6r}{1} = 6r$$

$$\frac{dx}{dx} = 1$$

گزشتہ (۷)

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$$\wedge x \not\models \varepsilon \wedge$$

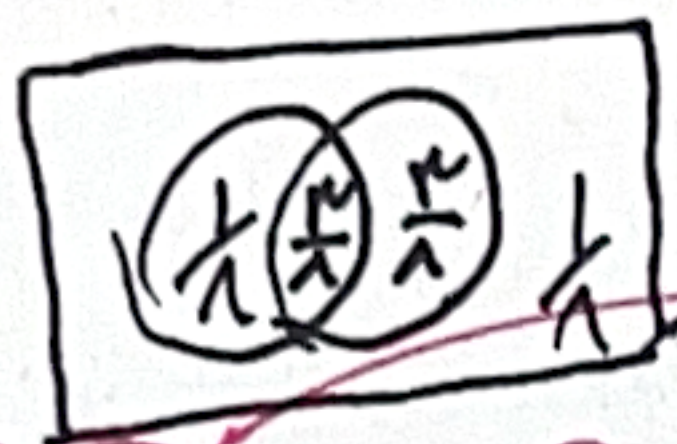
$$P(A) = \frac{1}{4n}$$

زینہ 2

$$\wedge(A) = \{ (///) \}$$

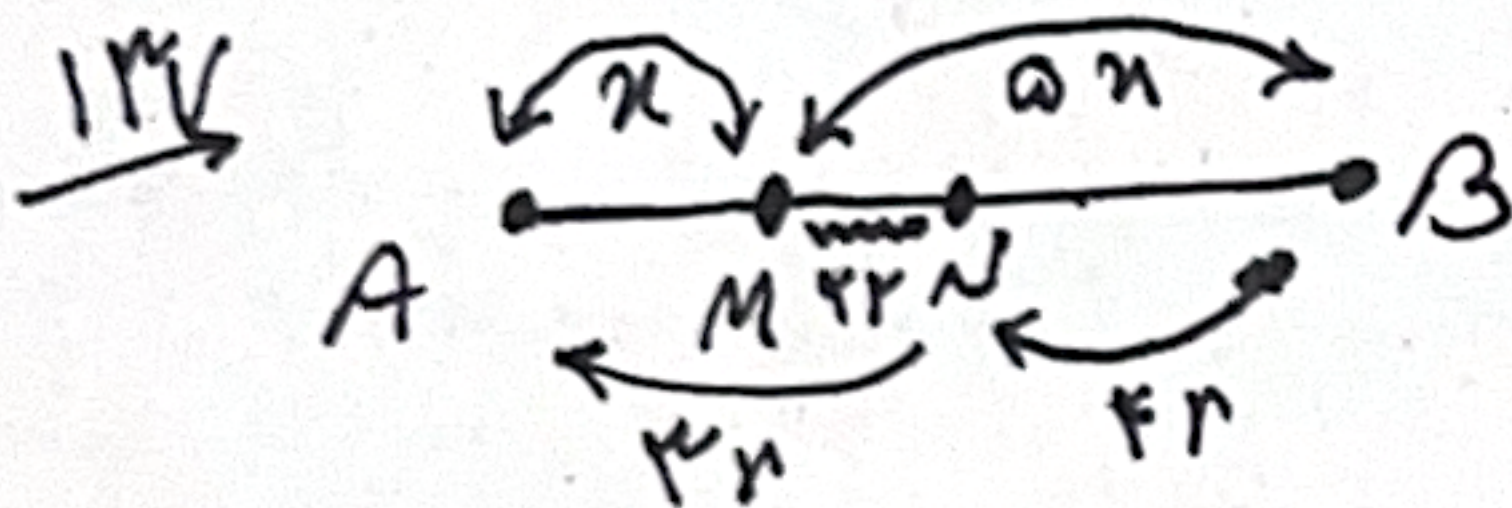
$$\xrightarrow{1\%} P(A) = \frac{1}{100} P(B)$$

$$P(B-A) = \frac{4}{1}$$



گزینہ (۷)

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$$1 \quad \sqrt{r} = 4x$$

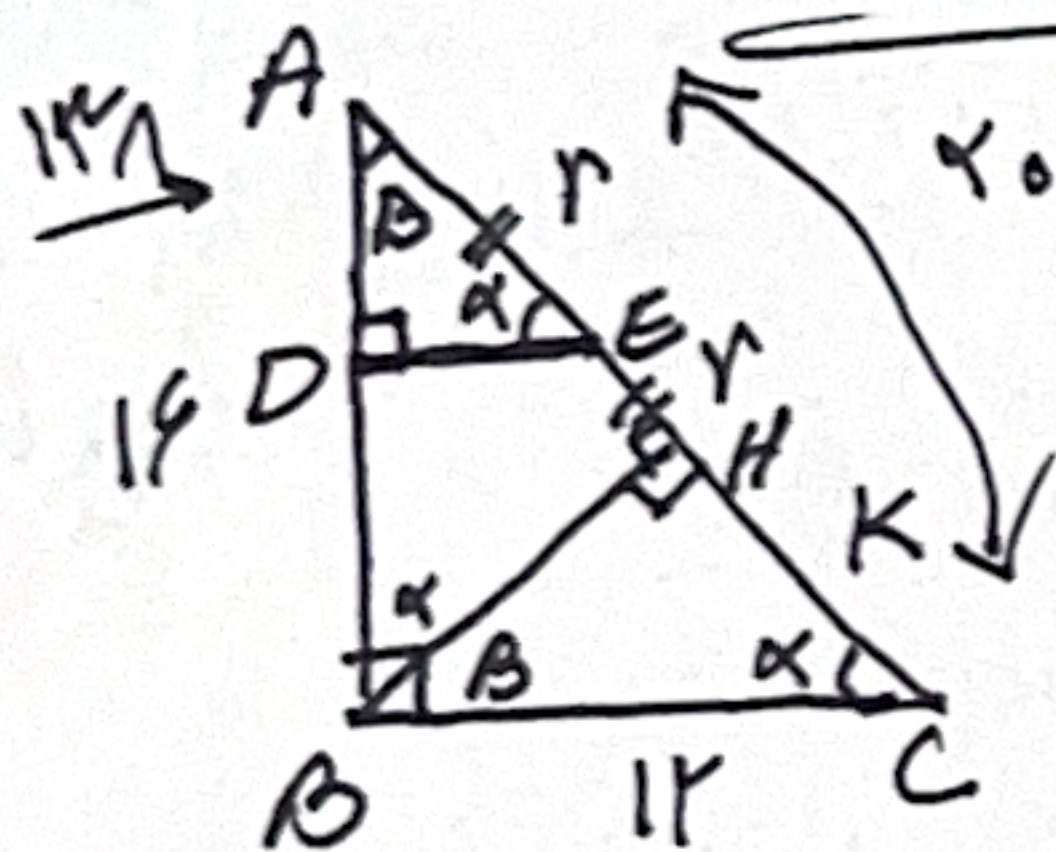
$$\begin{cases} 4r - x = 22 \end{cases}$$

$$r = 15$$

$$AB = VR = \Lambda F$$

$$\lambda + \mu = 12$$

گزشتہ 2

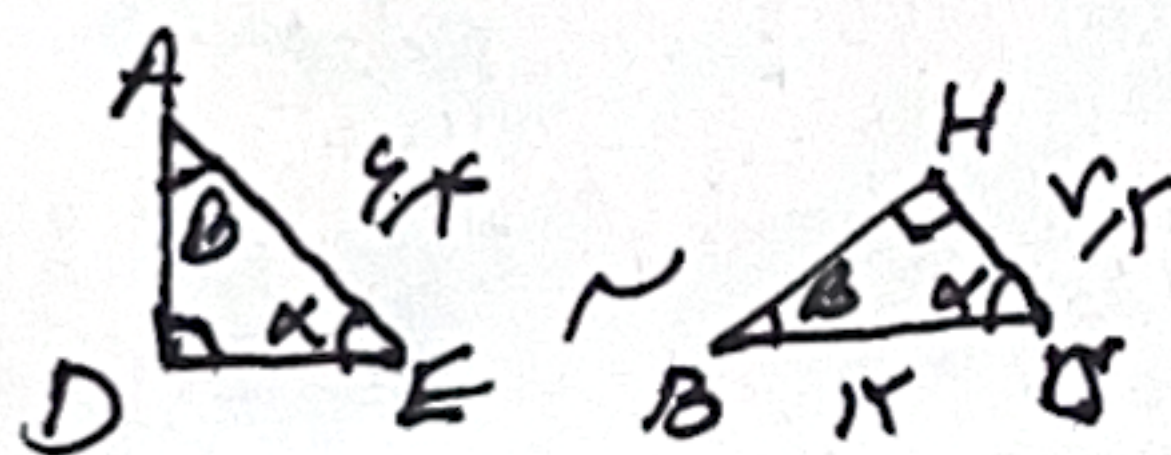


$$\gamma r + k = \gamma_0$$

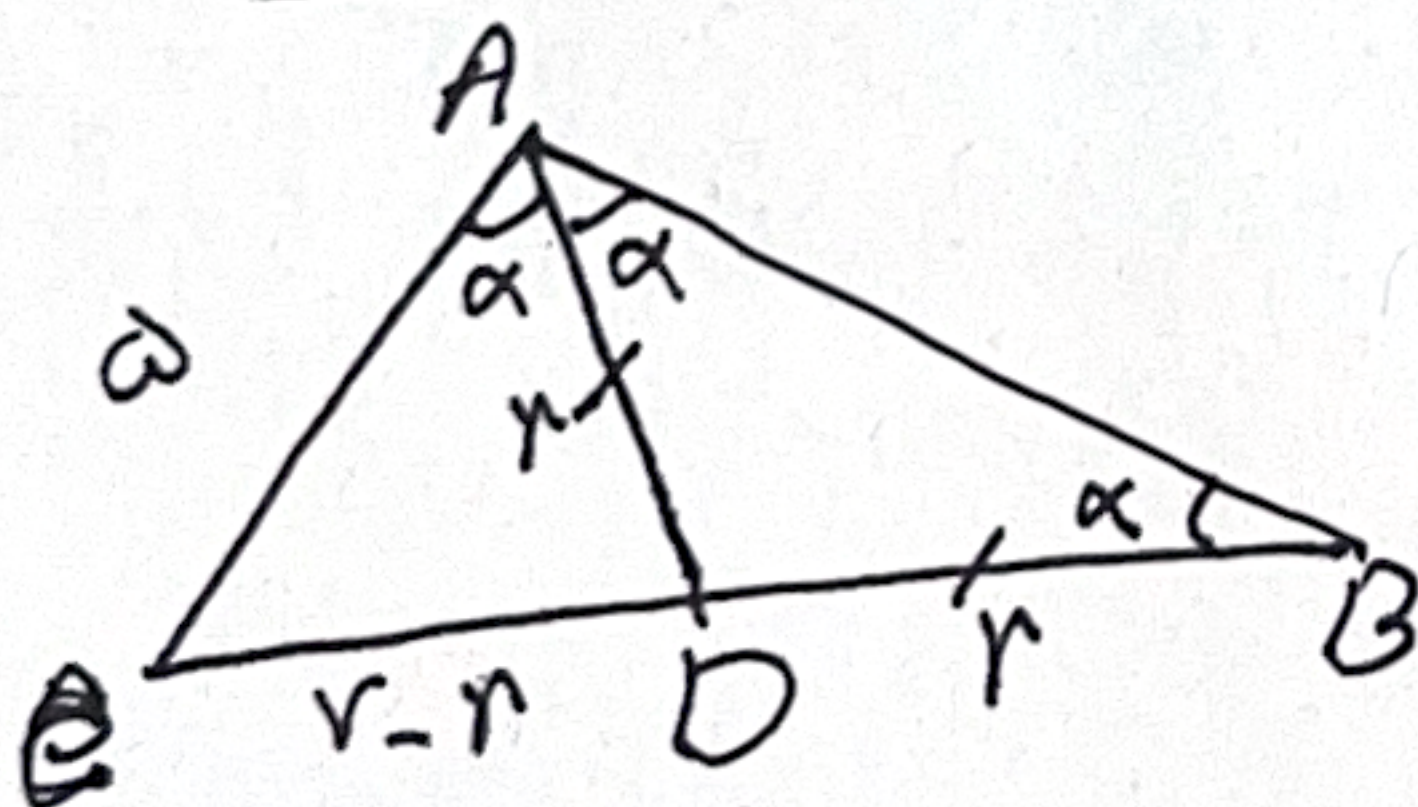
$$19^r = r r(r + K) = f_0 r \rightarrow r = \frac{f_0}{K}$$

$$K = \frac{V}{r}$$

زينة الف



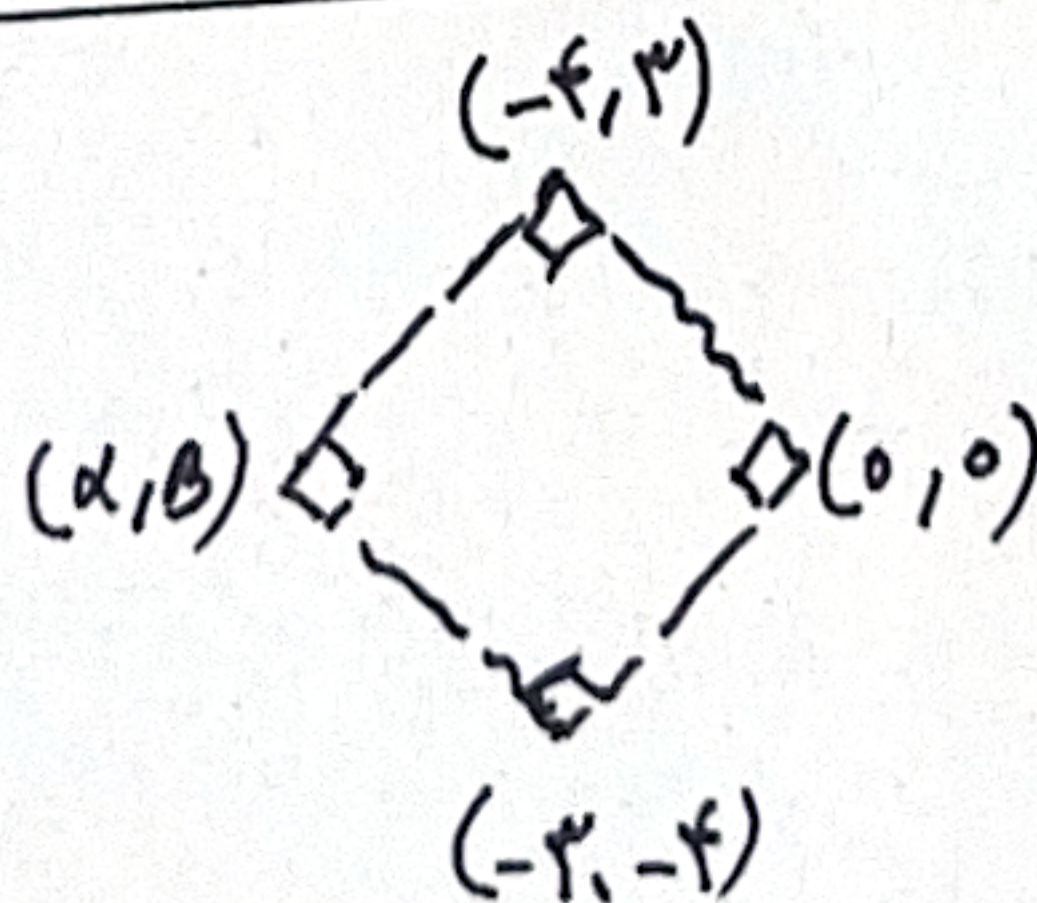
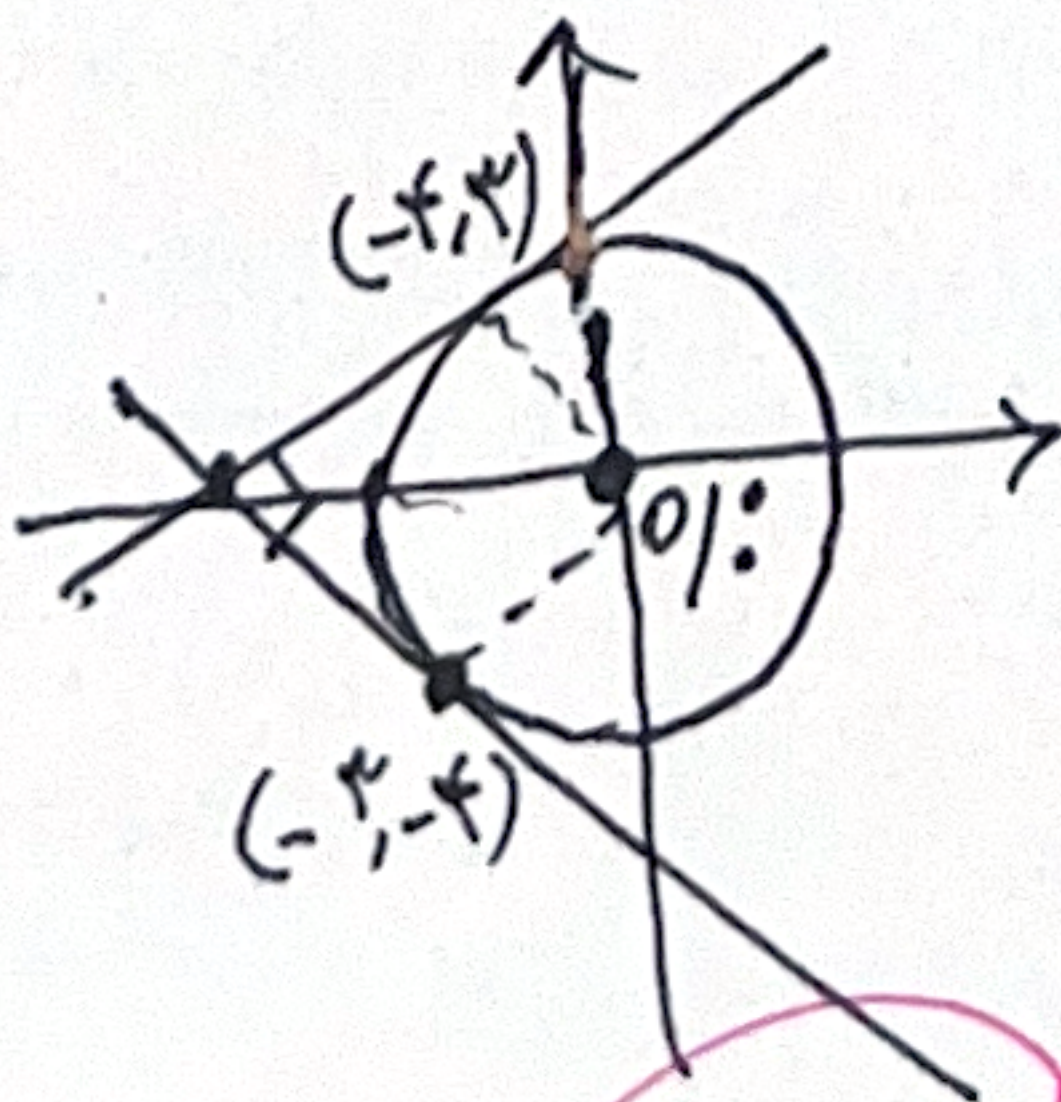
$$\rightarrow \frac{DE}{V, r} = \frac{\xi, f}{1r} \rightarrow DE = \frac{\xi, f}{1r} \Delta E$$



$$\frac{\omega}{V} = \frac{r}{AB} = \frac{\frac{r\omega}{V}}{AB} \rightarrow AB = r, \Delta$$

زینہ

$$\frac{v-r}{\omega} = \frac{a}{v} \rightarrow r = \frac{vE}{v}$$



$$\alpha + 0 = -f - v \rightarrow \alpha = -v$$

$$\beta_{+0} = \mu - f \rightarrow \beta = -1$$

$$GU^{-1} \begin{bmatrix} -V \\ -1 \end{bmatrix} \rightarrow \alpha\beta = \checkmark$$

2

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