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یازدهم بهیشتنه دما نوره C

عسل طاهر

1, 28

سراڼ ←

$$\left| \begin{matrix} 2 & 1 \\ 1 & -2 \end{matrix} \right| \rightarrow \frac{2 - (-2)}{1 - 1} = \frac{4}{0} = -\infty$$

$$\rightarrow y = -x + 1$$

انځ (2-2) د

$$-y = -3x - \frac{1}{3} \rightarrow a = a' = -3$$

ب) $2y + 3x = -1$

$$\rightarrow y = -3x + 13 \quad y = -3x + 13$$

ج) $x + 3y = 1$ $a' = 3x$ $\frac{1}{3} \text{ slope} = -1$ $m' = 3$

$$\rightarrow y = \frac{1}{3}x + \frac{1}{3}$$

$$y = 3x - 10$$

$$\tan \frac{\pi}{3} \rightarrow \tan 60 = \sqrt{3}$$

د

$$\rightarrow y = \sqrt{3}x - 2\sqrt{3} + 1$$

سراڼ ←

د نقطو فاصله $= \sqrt{(x - x_A)^2 + (y - y_A)^2}$

(2, 3) (-1, 7)

انځ

$$\rightarrow \sqrt{(2 - (-1))^2 + (3 - 7)^2} = \sqrt{25} = 5$$

2

$$3x + 4y = 3$$

د نقطو فاصله

$$\rightarrow \frac{|ax + by + c|}{\sqrt{a^2 + b^2}} = \frac{|3x + 4y - 3|}{\sqrt{5}}$$

$$\rightarrow \frac{|4 + 12 - 3|}{5} = \frac{13}{5} = 2.6$$

$$c' = \frac{c}{r} \rightarrow \frac{1 - 11 - 11}{2} = \frac{-21}{2}$$

سراڼ ← انځ

$$\rightarrow 6x + 4y + 10 = 0$$

1, 8

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$$\{x+4y-1, 3x+5y-12 \rightarrow \frac{-12+11}{\sqrt{14+34}} = \frac{-1}{\sqrt{48}} \quad (ب)$$

$$\frac{|3x-2y-1|}{\sqrt{13}} = \frac{|2x+3y-2|}{\sqrt{13}} \rightarrow |3x-2y-1| = |2x+3y-2| \leftarrow \text{سوال}$$

$$\rightarrow 3x-2y-1 = 2x+3y-2 \rightarrow \boxed{3x-2y-1 = 2x+3y-2} \quad (1) \quad (5)$$

$$3x-2y-1 = -2x-3y+2$$

$$\rightarrow \boxed{5x+y-3=0} \quad (2)$$

$$\tan \alpha = \frac{|m-m'|}{1+m m'} \rightarrow \frac{|3-(-2)|}{|1-6|} = \frac{5}{5} = 1 \leftarrow \text{سوال} \quad (5)$$

$$\alpha = 45^\circ \quad (5)$$

$$(-2, 1)(3, -2) \rightarrow \sqrt{(3-(-2))^2 + (-2-1)^2} = \frac{10}{5} \quad (ب)$$

$$x' = \frac{x_A + x_B}{2} \quad y' = \frac{y_A + y_B}{2} \rightarrow \frac{-2}{2} = -1, \frac{1-2}{2} = -\frac{1}{2} \quad (5)$$

$$\rightarrow \left(-1, -\frac{1}{2} \right)$$

$$\begin{vmatrix} -10 & -2 & 3 \\ -13 & 3 & 1 \\ 1 & 1 & 1 \end{vmatrix} \rightarrow \frac{x_A + x_B + x_C}{3} = \frac{-10-2+3}{3} = \frac{-9}{3} = -3 \leftarrow \text{سوال}$$

$$\frac{y_A + y_B + y_C}{3} = \frac{-13+1+3}{3} = \frac{-9}{3} = -3$$

$$\begin{vmatrix} -10 & -2 & 3 \\ -13 & 3 & 1 \\ 1 & 1 & 1 \end{vmatrix}$$

$$\frac{1}{3} (9 - 10 + 24 + 30 + 13 + 2) = \frac{51}{3}$$

$$y = \frac{2x+1}{x-3} \rightarrow -y = \frac{2x+1}{x-3} \rightarrow -y = \frac{2x+1}{x-3} \quad \text{سراش (الف)}$$

$$y = \frac{-2x-1}{-x-3}$$

ب) ٢

$$x = \frac{2y+1}{y-3} \rightarrow y(x-3) = 2y+1 \rightarrow yx-3y = 2y+1 \rightarrow yx-5y = 2y+1 \rightarrow y(x-5) = 2y+1 \rightarrow y = \frac{2y+1}{x-5} \rightarrow \frac{2y+1}{x-5}$$

$$-x = \frac{-2y+1}{-y-3} \rightarrow yx+3x = -2y+1 \rightarrow yx+2y = 1-3x \rightarrow y(x+2) = 1-3x \rightarrow y = \frac{1-3x}{x+2}$$

$$y(x+2) = 1-3x \rightarrow y = \frac{1-3x}{x+2}$$

$$\frac{1-3x}{x+2}$$

$$x' = x-3 \quad y' = y+3$$

$$y = \frac{2x+1}{x-3} \quad \text{سراش (الف)}$$

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

$$\rightarrow y' = \frac{2x'+1}{x'-1} + 3$$

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$$x' = x-3 \Rightarrow x' + 3 = x$$

$$y' = y-3 \Rightarrow y' + 3 = y \rightarrow y' + 3 = \frac{2x'+1}{x'-1} \Rightarrow y' = \frac{2x'+1}{x'-1} - 3$$

ب)

$$\begin{cases} 3x + 1y = 1 \\ (x - 2y = 1) \times 3 \end{cases} \rightarrow \begin{cases} 3x + 1y = 1 \\ -3x + 6y = 3 \end{cases}$$

لـ صـنـر

$$7y = 4 \rightarrow y = \frac{4}{7}$$

$$x = \frac{1 - y}{3} = \frac{1 - \frac{4}{7}}{3} = \frac{\frac{3}{7}}{3} = \frac{1}{7}$$

$$x = -\frac{2}{19} \rightarrow x = \frac{2}{19}$$

$$y = \frac{1}{19}$$

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$$\frac{3-2}{-10-4}$$

شکل ابرام فرشته سوره