

البيان الثاني

بارك الله فيكم

٢٥ أفندي

البيان

$$(2, -2) (4, 2) \rightarrow \frac{y_2 - y_1}{x_2 - x_1} = \frac{4}{-2} = -2 \quad (-2x + 18) \checkmark$$

١- الف (٢)

$$2y = -4x - 1 \rightarrow \text{نضرب} = -3 \rightarrow -3x + 12 \checkmark$$

$$3y = -x + 1 \rightarrow y = -\frac{1}{3}x + \frac{1}{3} \rightarrow \text{نضرب} : -\frac{1}{3} \rightarrow 3 \quad (3x - 10) \checkmark$$

ج (١)

$$\tan \theta = \sqrt{3} \quad (\sqrt{3}x - 4\sqrt{3} + 2) \checkmark$$

$$(2, 3) (-1, 7) \quad \sqrt{\Delta y^2 + \Delta x^2} = \sqrt{9 + 16} = 5 \checkmark \quad \text{الاج (٢)}$$

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$$3x + 4y - 13 = 0 \quad \frac{|4 + 12 - 13|}{5} = \frac{3}{5} = 0.6 \checkmark$$

←

$$2x + 3y = 4 \quad \frac{4 + 6}{5} = 2 \quad (2x + 3y = 4) \checkmark \rightarrow 3y = -2x + 4$$

٣- (٢)

$$2x + 3y = 4$$

$$\frac{4 + 6}{5} = 2$$

$$(2x + 3y = 4) \checkmark$$

$$\rightarrow 3y = -2x + 4$$

$$4 - 2 = 2$$

$$\frac{|C - C'|}{\sqrt{A^2 + B^2}} = \frac{2}{\sqrt{13}} \rightarrow \frac{2\sqrt{13}}{13} \checkmark$$

←

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

٤- (٢)

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$$3x - 2y - 1 = 2x + 3y - 3 \rightarrow x - 5y = -2 \rightarrow -5y = -x - 2 \rightarrow 5y = x + 2 \checkmark$$

$$3x - 2y - 1 = -2x - 3y + 3 \rightarrow 5x + y = 4 \rightarrow y = -5x + 4 \checkmark$$

$$y = 2x + 4 \rightarrow m = 2$$

$$y = -2x + 3 \rightarrow m' = -2$$

$$\frac{|m - m'|}{1 + mm'} = \tan \alpha \rightarrow \frac{2 - (-2)}{1 + (-4)} = \left| \frac{4}{-3} \right| = 1 \quad (2) - 4$$

$$\alpha = \frac{\pi}{4} \checkmark$$

$$(-4, 4) (3, -2) \quad \sqrt{\Delta x^2 + \Delta y^2} = \sqrt{49 + 36} = 10 \checkmark$$

الاج (٢)

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$$\frac{-4 + 3}{2} = -\frac{1}{2} \quad \frac{4 - 2}{2} = 1 \quad (-1, 1) \checkmark$$

←

$$\frac{-10 - 2 + 3}{3} = -3$$

$$\frac{1 + 3 - 13}{3} = -3 \quad (-3, -3) \checkmark \quad (2) \quad -V$$

$$\begin{array}{l} 3, 1 \\ -2, 3 \\ -10, -13 \\ 3, 1 \end{array} \quad \frac{1}{3}(9 + 2y - 10 + 2 + 30 + 3y) = \frac{9y}{3} = 3 \checkmark$$

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

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

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

$$4) -x = \frac{\frac{y+1}{3y+3}}{-3y-3} = \dots \quad (2) \quad -\Lambda$$

$$y = \dots \quad \frac{3x - 1}{3x + 3} \checkmark$$

$$\left. \begin{array}{l} x' = x - 2 \\ y' = y + 3 \end{array} \right\} \begin{array}{l} x = x' + 2 \\ y = y' - 3 \end{array} \quad \frac{2(x' + 2) + 1}{x' + 2 - 3} = y' - 3$$

$$\frac{2x + 1}{x - 1} + 3 \rightarrow \frac{2x' + 7}{x' - 1} = y' \checkmark$$

$$\begin{array}{l} x = x' + 2 \\ y = y' + 3 \end{array} \quad \frac{2(x' + 3) + 1}{x' + 3 - 3} = \frac{2x' + 7}{x'} = y' \checkmark \quad (2) \quad -9$$

$$\left. \begin{array}{l} 3x + 4y = 2 \\ 2x - 3y = -3 \end{array} \right\} \quad 19y = -1 \quad y = -\frac{1}{19} \checkmark \quad x = \frac{14}{19} \checkmark \quad (2) \quad -10$$

$$x = -\frac{\begin{vmatrix} 4 & 2 \\ -3 & 1 \end{vmatrix}}{\begin{vmatrix} 3 & 4 \\ 2 & -3 \end{vmatrix}} = -\frac{4 - (-6)}{-9 - 8} = -\frac{10}{-17} = \frac{10}{17}$$

$$y = \frac{\begin{vmatrix} 3 & 2 \\ 1 & 1 \end{vmatrix}}{\begin{vmatrix} 3 & 4 \\ 2 & -3 \end{vmatrix}} = \frac{3 - 2}{-9 - 8} = -\frac{1}{17}$$