

$$y - 2 = -\varepsilon(x - \varepsilon) \rightarrow y = -\varepsilon x + 18 \quad m = \frac{-\varepsilon}{1} \rightarrow \text{الف) ①}$$

$$m = m' \rightarrow a = -\varepsilon$$

$$y - 2 = \varepsilon(x - \varepsilon) \rightarrow y = \varepsilon x - 10 \quad \text{ب) ②}$$

$$a = -\varepsilon$$

$$y = -\varepsilon x + 18 \quad \text{ب) ③}$$

$$a = \tan \alpha = \tan \frac{\pi}{3} = \sqrt{3}$$

$$y - 2 = \sqrt{3}(x - \varepsilon) \rightarrow y = \sqrt{3}x - \varepsilon\sqrt{3} + 2$$

$$a = \sqrt{14+9} = \omega \rightarrow \sqrt{a^2 + \omega^2}$$

$$\frac{4+12-3}{\sqrt{14}} = \frac{13}{\omega} = 12 \rightarrow \dots \text{ب) ④}$$

$$2x + 3y = 2 \quad \frac{c+c'}{2} \rightarrow 2x + 3y = \frac{4+\varepsilon}{2} = \omega \quad \text{الف) ⑤}$$

$$2x + 3y = \omega$$

$$\frac{|c-c'|}{\sqrt{a^2+b^2}} = \frac{4-\varepsilon}{\sqrt{4+9}} = \frac{2}{\sqrt{13}} = \frac{2\sqrt{13}}{13} \quad \text{ب) ⑥}$$

$$\begin{cases} 2x + 3y = 3 \\ 2x - 2y = 1 \end{cases} \quad \frac{|ax+by+c|}{\sqrt{a^2+b^2}} = \frac{|a'x'+b'y'+c'|}{\sqrt{a'^2+b'^2}} \quad \text{الف) ⑦}$$

$$\frac{|2x+3y-3|}{\sqrt{4+9}} = \frac{|2x-2y-1|}{\sqrt{4+2}}$$

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

$$1) 2x + 3y - 3 = 2x - 2y - 1 \rightarrow \omega y - 2 - 2 = 0 \quad \text{ب) ⑧}$$

$$2) 2x + 3y - 3 = 2y - 2x + 1 \rightarrow \omega x + y - 2 = 0$$

subject

$$\tan \alpha = \frac{|m - m'|}{|1 + mm'|} = \frac{\omega}{\omega'} \leq 1 \quad \text{الف (5)}$$

(500000) L, 9.22 \omega^{\wedge}

$$d = \sqrt{\Delta x'^2 + \Delta y'^2} = \sqrt{14^2 + 42^2} = 44 \quad \text{الف (6)}$$

$$\begin{cases} \frac{x+x'}{2} = -1 \\ \frac{y+y'}{2} = 1 \end{cases} \quad \text{الف (7)}$$

$$\begin{vmatrix} 3 & 1 & 1 \\ -2 & 3 & 1 \\ -1 & -1 & 1 \end{vmatrix} = 3(1-1) + 3(1-1) + 1(2-1) = 1 \quad \text{الف (8)}$$

(100000) L, 9.22 \omega^{\wedge}

$$-y = \frac{2x+1}{2x-3} \rightarrow y = \frac{2x+1}{3-2x} \quad \text{الف (9)}$$

$$y = \frac{-2x+1}{-2x-3} = \frac{2x-1}{2x+3} \quad \text{الف (10)}$$

$$x = \frac{2y+1}{2y-3} \rightarrow y = \frac{-2x-1}{2x-3} = \frac{2x+1}{2x-3} = y \quad \text{الف (11)}$$

$$y = \frac{-2x+1}{-2x-3} \rightarrow y = \frac{1-2x}{2x+3} \quad \text{الف (12)}$$

$$x-2 = x' \rightarrow x = x'+2 \quad \text{الف (13)}$$

$$y = y'+2 \rightarrow y = y'-2 \quad \text{الف (14)}$$

$$y-2 = \frac{2(x'+2)+1}{x'+2-2} \rightarrow y' = \frac{2x'+5}{x'-1} + 2 = \frac{2x'+7}{x'-1} \quad \text{الف (15)}$$

subject

$$x' \leq x-1 \rightarrow x = x' + 1 \quad y' \leq y-2 \rightarrow y = y' + 2 \quad -9$$

$$y' + 2 \leq \frac{1(x' + 1) + 1}{(x' + 1) - 1} \rightarrow y' \leq \frac{1x' + 2}{x'} - 2 \rightarrow y' \leq \frac{2}{x'}$$

$$1x + 2y \leq 1 \quad x \leq \omega y + 1$$

$$x - \omega y \leq 1 \rightarrow$$

الف (10)

ب

$$1x + 2y \leq 1 \quad 10y + 1 + 2y \leq 1 \quad 12y \leq -1$$

$$x \leq \frac{-1}{12} + \frac{1}{10} \leq \frac{1}{10}$$

$$y \leq \frac{-1}{12}$$

$$x \leq - \frac{2 + 10}{-10 + (-2)} \leq \frac{12}{19}$$

$$y \leq \frac{3 - 1}{-19} = \frac{-1}{19}$$

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