

$$y - 1 = -\varepsilon(x - \varepsilon) \rightarrow y \leq -\varepsilon x + 18 \quad m_1 = \frac{-\varepsilon}{1} = -\varepsilon \quad \text{الف) ①}$$

$$\text{میشود} \rightarrow m \leq m' \rightarrow a \leq -\varepsilon \quad \text{ب.}$$

$$y - 1 = 3(x - \varepsilon) \rightarrow y \leq 3x - 10$$

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

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$$y - 1 = \sqrt{3}(x - \varepsilon) \rightarrow y \leq \sqrt{3}x - \varepsilon\sqrt{3} + 1$$

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

الف) ②

$$\frac{4+12-1}{\sqrt{14}} = \frac{1\omega}{\omega} = 1 \rightarrow \dots$$

$$2x + 3y \leq 2 \quad \frac{c+c'}{2} \rightarrow 2x + 3y \leq \frac{4+\varepsilon}{2} = \omega$$

الف) ③

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

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

$$\begin{cases} 2x + 3y \geq 3 \\ 3x - 2y \leq 1 \end{cases} \quad \frac{|ax+by+c|}{\sqrt{a^2+b^2}} = \frac{|a'x'+b'y'+c'|}{\sqrt{a'^2+b'^2}} \quad \text{ج) ④}$$

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

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

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

$$2) 2x + 3y - 3 = 2y - 3x + 1 \rightarrow \omega x + y - 4 = 0$$

subject

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

(500000) $\omega' < \omega$

$$d = \sqrt{\Delta x'^2 + \Delta y'^2} = \sqrt{14^2 + 42^2} = 10$$

(الف) (6)

$$\begin{cases} \frac{x+x'}{2} = -1 \\ \frac{y+y'}{2} = 1 \end{cases}$$

(ب)

$$\begin{aligned} & \text{(ترتيب)} \quad \begin{vmatrix} 1 & 1 & 1 \\ -1 & 1 & 1 \\ -1 & -1 & 1 \end{vmatrix} = 10 + 19 + 1 + 10 = 0 \\ & \begin{vmatrix} 1 & 1 & 1 \\ -1 & 1 & 1 \\ -1 & -1 & 1 \end{vmatrix} = 99 \rightarrow \frac{99}{2} = \frac{99}{2} \end{aligned} \quad \text{الف (7)}$$

$$\begin{cases} \frac{10-10}{2} = -1 \\ \frac{1+1-10}{2} = -3 \end{cases}$$

$$-y = \frac{10x+1}{2x-1} \rightarrow y = \frac{10x+1}{1-2x}$$

(الف) (1)

$$y = \frac{-10x+1}{-2x-1} = \frac{10x-1}{2x+1}$$

(ب)

$$x = \frac{10y+1}{2y-1} \rightarrow y = \left(\frac{-10x-1}{2x-1} \right) = \frac{10x+1}{2x-1} = y \quad \text{(ج)}$$

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

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

(الف) (9)

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

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

subject

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

$$y' + 2 \leq \frac{1(x' + 1) + 1}{(x' + 1) - 1} \rightarrow y' \leq \frac{2x' + 4}{x'} - 2 \rightarrow y' \leq 2$$

$$3x + 2y \leq 1 \quad x \leq \omega y + 1$$

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

الف (10)

$$3x + 2y \leq 1 \quad 10y + 3 + 2y \leq 1 \quad 12y \leq -1$$

$$x \leq \frac{-5}{12} + \frac{19}{12} \leq \frac{14}{12}$$

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

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

$$y \leq \frac{3 - 1}{-12} \leq \frac{-2}{12}$$

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