

سپاسش عارف زاراد یازدهم رشتہ A تکلیف ۱۳

$$m = \frac{dy}{dx} = \frac{-f}{1} = -\varepsilon$$

① اف ۱

$$y - 2 = -\varepsilon(x - \varepsilon) \rightarrow y = -\varepsilon x + 1\varepsilon$$

$$\text{ب) } \rightarrow \text{سید پر اب} \rightarrow a = -\sqrt{3}$$

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

y - y

$$\text{ب) } \rightarrow a' = -\frac{1}{a} = -\frac{1}{-\sqrt{3}} = \sqrt{3}$$

$$y - 2 = \sqrt{3}(x - \varepsilon) \rightarrow y = \sqrt{3}x - 1\varepsilon$$

$$a = \tan \alpha = \tan \frac{\pi}{4} = \sqrt{3}$$

د

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

$$d = \sqrt{14 + 9} = \omega = \sqrt{a^2y^2 + b^2x^2}$$

② اف ۲

$$\frac{4 + 12 - \sqrt{3}}{\sqrt{9 + 14}} = \frac{10}{\omega} = \sqrt{3} = \frac{|ay + bx + c|}{\sqrt{a^2y^2 + b^2x^2}}$$

ب

$$r_n + s_y = 1, \quad r_n + s_y = 2$$

$$r_n + s_y = 1$$

$$\frac{c + c'}{r} = r_n + s_y = \frac{4 + \varepsilon}{r} = \omega \rightarrow r_n + s_y = \omega$$

③ اف ۳

ب

$$\frac{|c - c'|}{\sqrt{a^2 + b^2}} = \frac{4 - \varepsilon}{\sqrt{\varepsilon + 9}} = \frac{4}{\sqrt{10}} = \frac{r\sqrt{10}}{10}$$

$$r_n + s_y = \sqrt{3}$$

$$r_n - s_y = 1$$

$$\frac{|ax + by + c|}{\sqrt{a^2 + b^2}} = \frac{|a'x + b'y + c'|}{\sqrt{a'^2 + b'^2}}$$

④

$$\frac{|r_n + s_y - \sqrt{3}|}{\sqrt{3 + 1}} = \frac{|r_n - s_y - 1|}{\sqrt{9 + \varepsilon}} \rightarrow |r_n + s_y - \sqrt{3}| = |r_n - s_y - 1|$$

$$① \quad r_n + s_y - \sqrt{3} = r_n - s_y - 1 \rightarrow \omega y - x - 2 = 0$$

$$② \quad r_n + s_y - \sqrt{3} = r_n - s_y + 1 \rightarrow \omega x + y - \varepsilon = 0$$

dn

$$\tan \alpha = \frac{|m - m'|}{1 + mm'} = \frac{2 + 0}{1 - 4} = \frac{2}{-3} = -\frac{2}{3}$$

$$\rightarrow \alpha = \tan^{-1} \left(-\frac{2}{3} \right)$$

$$d = \sqrt{\Delta x^2 + \Delta y^2} = \sqrt{16 + 49} = 5$$

$$\frac{x + x'}{1} = -1$$

$$\frac{y + y'}{1} = 1$$

الف) $\frac{2 - 2 - 1}{1} = -1$ ب) $\begin{vmatrix} 1 & 1 & 1 \\ -2 & 2 & 1 \\ -1 & -1 & 1 \end{vmatrix} = -1 - 2 - (1 - 2 + 1) = -1 - 2 - 0 = -3$

الف) $-y = \frac{2x+1}{2x-1} \Rightarrow y = \frac{2x+1}{1-2x}$ -1

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

ج) $x = \frac{2y+1}{2y-1} \Rightarrow y = \frac{-2x-1}{2x-1} = \frac{2x+1}{1-2x} = y$

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

الف) $x' = x - 2 \rightarrow x = x' + 2$ -4
 $y' = y + 2 \rightarrow y = y' - 2$

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

$$n' = n - r \rightarrow n = n' + r$$

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

$$y' + r = \frac{r(n' + r) + 1}{(n' + r) - 10} \rightarrow y' = \frac{rn' + r^2}{n'} - r \rightarrow y' = r$$

$$10n + 8y = r$$

د- الف)

$$n - 5y = 1 \rightarrow n = 5y + 1$$

$$10n + 8y = r \rightarrow 10(5y + 1) + 8y = r \rightarrow 19y = r - 10 \rightarrow y = \frac{r-10}{19}$$

$$n = -\frac{r-10}{19} + 1 = \frac{10-r}{19}$$

$$x = -\frac{\begin{vmatrix} b' & c' \\ b & c \end{vmatrix}}{\begin{vmatrix} a & b \\ a' & b' \end{vmatrix}}} = -\frac{8+10}{-10+8} = \frac{18}{19}$$

ج)

$$y = \frac{\begin{vmatrix} a & c \\ a' & c' \end{vmatrix}}{\begin{vmatrix} a & b \\ a' & b' \end{vmatrix}}} = \frac{r-10}{-19} = -\frac{r-10}{19}$$

