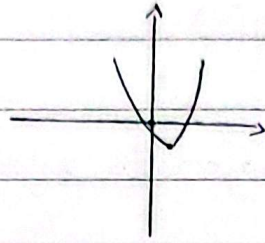


دہم سیر A

تالیف نمبری ۶۵

صدراعلی

الف) $y = 3x^2 - 6x$

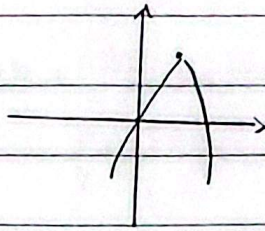


①
ارباحیہ قسم میں لگند

$x_s = \frac{1}{3}$

$y_s = \frac{-1}{3}$

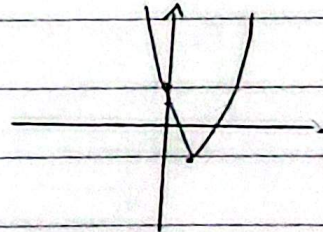
ب) $y = -x^2 + 4x$



→ ارباحیہ قسم میں لگند

$x_s = 2, y_s = 4$

الف) $y = 2x^2 - 5x + 2$

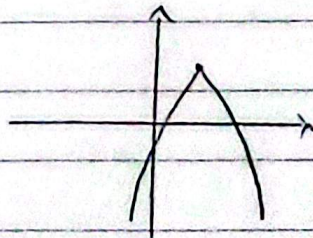


②

$x_s = \frac{5}{4}, y_s = \frac{25}{4} - \frac{25}{2} + 2 = \frac{-9}{4}$

← ارباحیہ اول، کم وچھام سگند

ب) $y = -x^2 + 4x - 1$



→ ارباحیہ اول، کم وچھام سگند

$x_s = 2, y_s = 3$

الف) $\frac{d+\beta}{d-\beta} = \frac{\frac{-b}{a}}{\frac{\sqrt{\Delta}}{2a}} = \frac{1}{\sqrt{13}} = \frac{\sqrt{13}}{13}$

③

$d^2 - \beta^2 = (d-\beta)(d+\beta+aB)$

ب) $d^2 + \beta^2 = s^2 - 2sp = 1 + 9 = 10$

$= 2\sqrt{13}$

ج) $d^2 + \beta^2 = s^2 - 2sp = 1 + 9 = 10$

④ اگر $\Delta < 0$ ہو تو دو حقیقی اور دو غیر حقیقی ریشے ہوں گے۔

ریشے تلاش کریں۔ $\Delta < 0$ کی صورت میں $\alpha^2 - 4a < 0 \rightarrow a(a-4) < 0$

$$\rightarrow \frac{0}{+4 - 4} \rightarrow a = (0, 4)$$

⑤ $2d^2 + \beta^2 - \epsilon d = V \rightarrow (\alpha^2 + \beta^2) + d(\alpha - \epsilon) = V$

$s^2 - 2p = 14 + \frac{19}{3}$ $d = \frac{(\alpha + \beta)}{-\beta}$

$\rightarrow 14 + \frac{2a}{3} + \frac{a}{3} = V \rightarrow a = -9$ $3d^2 - 12d + 9 = 0$

ریشے تلاش کریں $\rightarrow \frac{12 \pm \sqrt{144 - 108}}{6} = 3$

$\frac{a}{3} = \frac{-9}{3} = -3$

⑥ چونکہ $\Delta < 0$ ہے اس لیے دو حقیقی اور دو غیر حقیقی ریشے ہوں گے۔ $x_5 = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{10 \pm 0}{2} = 5$

$\rightarrow b = 10, y_5 = b - 2 = 8$

$\frac{-\Delta}{\epsilon a} = \frac{\epsilon ac - 10a^2}{\epsilon a} = C - 2a = 8$

$\rightarrow a = \frac{C-8}{2}$

$(0, 8) \rightarrow y = ax^2 + bx + c \rightarrow 10 = \frac{C-8}{2} \cdot 0^2 + 10 \cdot 0 + C$

$\rightarrow 10 = C - 8 + C \rightarrow C = 9$

$$\Sigma \cdot \beta^r + \gamma \cdot \alpha^r - \gamma \cdot \beta = 1V \rightarrow \gamma \cdot (\alpha^r + \beta^r) + \gamma \cdot \beta (\beta - 1) = 1V \quad (V)$$

$$\rightarrow \gamma \cdot \left(1 - \frac{\gamma b}{a} \right) + \gamma \cdot \beta \left(\beta - \frac{(\alpha + \beta)}{-d} \right) = \gamma \cdot \frac{-\Sigma \cdot b}{a} + \frac{\gamma \cdot b}{a} = \gamma \cdot \frac{-\gamma \cdot b}{a}$$

$$\rightarrow \gamma \cdot a - \gamma \cdot b = 1Va \rightarrow \gamma a = \gamma \cdot b \rightarrow b = \frac{\gamma a}{\gamma}$$

$$\rightarrow a\alpha^r - a\gamma - \frac{\gamma a}{\gamma} = 0 \rightarrow |\alpha - \beta| = \frac{\sqrt{\Delta}}{|a|} = \frac{\sqrt{a^2 - \frac{\gamma b}{a}}}{|a|} = \frac{\sqrt{\frac{\gamma a^2}{a}}}{|a|}$$

$$\rightarrow \sqrt{\frac{\gamma}{a}}$$

$$x_s = \frac{1 - \omega}{\gamma} = -\gamma \quad y_s = -\frac{1}{\gamma} \quad (\Lambda)$$

$$\frac{-b}{\gamma a} = -\gamma \rightarrow b = \gamma a$$

$$\Rightarrow y = a\alpha^r + \gamma a\alpha^r + \frac{\gamma}{\gamma}$$

$$\left(-\gamma, \frac{1}{\gamma} \right) \rightarrow \frac{-\gamma}{\gamma} = -\gamma = \gamma a + \frac{\gamma}{\gamma}$$

$$\rightarrow y = \frac{\gamma^r}{\gamma} + \gamma a + \frac{\gamma}{\gamma}$$

$$\rightarrow a = \frac{1}{\gamma}$$

$$(1, \beta) \rightarrow \beta = \frac{1}{\gamma} + \gamma + \frac{\gamma}{\gamma} \rightarrow \beta = \gamma$$

$$\gamma \alpha^r + \gamma \beta^r = \gamma (\alpha^r + \beta^r) + \alpha^r \quad (9)$$

$$\rightarrow \gamma^2 + 4\gamma + a = 0 \Rightarrow \gamma = \frac{-4 \pm \sqrt{16 - 4a}}{2} = -2 \pm \sqrt{4 - a}$$

$$\frac{d = -2 \pm \sqrt{4 - a}}{\gamma} \quad \gamma^2 - \gamma a + \alpha^r = \gamma^2 - \gamma a - 1 \left(4 + 4 - a + 4\sqrt{4 - a} \right) = 1 \pm \sqrt{2} + \gamma a$$

$$\rightarrow \gamma^2 - \gamma a - 1 + a - 4\sqrt{4 - a} \rightarrow -4\sqrt{4 - a} = 1 \pm \sqrt{2} \rightarrow \frac{1}{4} \times (4 - a) = \gamma a$$

$$\rightarrow 4 - a = 1 \rightarrow a = 1$$

Date: / /

Subject: _____

$$\frac{1}{\sqrt{d}} + \frac{1}{\sqrt{\beta}} = \frac{\sqrt{d} + \sqrt{\beta}}{\sqrt{d \cdot \beta}} = \omega \rightarrow \frac{\sqrt{5+17\beta}}{\sqrt{\beta}} = \frac{\sqrt{\frac{m+17\beta}{\beta}}}{\frac{1}{\beta}} \quad (1)$$

$$= \frac{\sqrt{m+17\beta}}{\beta} = \sqrt{m+17\beta} = \omega \rightarrow m = -1$$

$$m\alpha^2 + r\alpha + r = 0 \rightarrow -2^2 + r\alpha + r = 0 \rightarrow 2^2 - r\alpha - r = 0 \rightarrow d \cdot \beta = \frac{c}{a} = -r$$

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