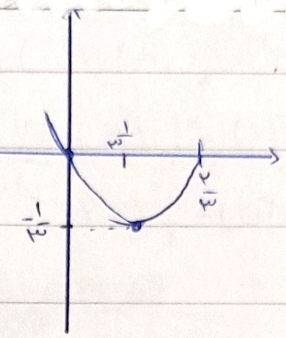


للمسألة
 في قسم

$y = 3x^2 - 2x \rightarrow S \mid \frac{-b}{2a} \rightarrow S \mid \frac{1}{3}$ A | 0 B | $\frac{2}{3}$
 مبالا

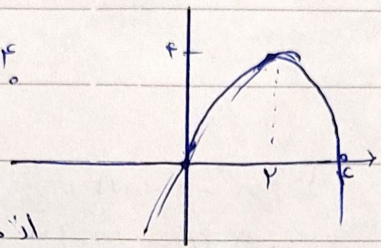
انخفاض في x



الف 1

$y = -x^2 + 4x \rightarrow S \mid \frac{2}{1}$ A | 0 B | 4
 max

انخفاض في x



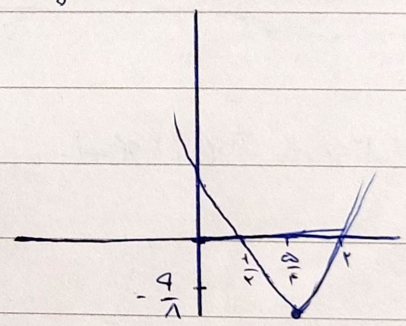
ب

$y = 2x^2 - 9x + 4 \rightarrow S \mid \frac{9}{4}$ A | $\frac{1}{2}$ B | $\frac{3}{2}$

الف 2

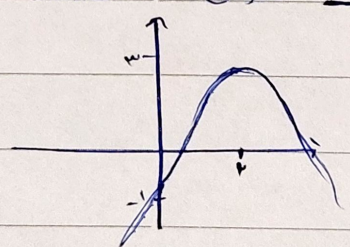
$\frac{2+2a}{4} - \frac{2a}{2} + 1 = \frac{2a-a}{1} = \frac{-2a+4}{1} = \frac{-4}{1}$

انخفاض في x



$y = -x^2 + 4x - 1 \rightarrow S \mid \frac{2}{1}$ C | 0

انخفاض في x



الف 3) $x^2 - x - 3 = 0$ $\alpha + \beta = \frac{1}{1} = 1$, $\alpha\beta = -3$, $\alpha - \beta = \frac{\sqrt{1+12}}{1} = \sqrt{13}$

$\frac{\alpha + \beta}{\alpha - \beta} = \frac{1}{\sqrt{13}} = \frac{\sqrt{13}}{13}$

ب) $\alpha^2 + \beta^2 = S^2 - 2P = 1 + 9 = 10$ ج) $\alpha^3 + \beta^3 = S^3 - 3SP = 1 + 9 = 10$

د) $\alpha^3 - \beta^3 = (\alpha - \beta)(\alpha^2 + \alpha\beta + \beta^2) = \sqrt{13} (10 - 3) = 7\sqrt{13}$

الف 4) $y = (x-2)(x^2 - ax + a) \rightarrow$ مقادير

$\Delta = 4 - 4a^2 = 0 \Rightarrow a = 2$ or $a = -2$

بالمقادير

$\Rightarrow a \in (0, 4) \Rightarrow 0 < a < 4$ او $a = 2$ or $a = -2$



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$$r^2x^2 - 1rx - a = 0 \quad x, B \text{ waziri} \quad rx^2 + B^2 - fx = V, \quad x + B = f \quad xB = \frac{-a}{r} \quad (u)$$

$$\rightarrow \begin{cases} x^2 + B^2 + x^2 - fx = V \\ r^2x^2 - 1rx = a \rightarrow x^2 - fx = \frac{a}{r} \end{cases} \quad \left. \begin{array}{l} 19 + \frac{ra}{r} + \frac{a}{r} = V \rightarrow 19 + a = V \rightarrow a = -9 \rightarrow xB = 3 \end{array} \right\}$$

$$\rightarrow r^2x^2 - 1rx + 9 = 0 \xrightarrow{\div r} x^2 - fx + 3 = 0 \rightarrow (x-1)(x-3) = 0 \rightarrow x = 3 \rightarrow \frac{a}{r} = \frac{-9}{r} = -3$$

$$A(2a+r, a-r), B(V-2a, a-r) \quad \text{substitution} \quad \text{isafonjilun} = Xr \quad S(b, b-r) \quad (9)$$

$$b = \frac{ra+r+V+ra}{r} = a \rightarrow S(a, r) \quad d(-f)^r + r \quad A(9, 1), B(1, 1)$$

$$\text{substitution} \rightarrow (a+r)x \quad y = -\frac{1}{n}x^r + \frac{1}{n}x - \frac{1}{n} \rightarrow r = -\frac{1}{n} \rightarrow \begin{bmatrix} 1 \\ n \end{bmatrix}$$

$$(v-ra) \cdot \begin{cases} (a+r)x \rightarrow ax - \frac{r}{r} \\ a < r \quad a \in (r, r) \quad a = r \end{cases}$$

$$\text{isafonjilun} = \frac{1}{n} \quad a-r \rightarrow ax \quad \text{isafonjilun } r-a \text{ waziri suba } \text{isafonjilun}$$

$$ax^r - ax - b = 0 \quad x, B \text{ waziri} \quad f \cdot B^r + r \cdot x^r - r \cdot B = 1V \quad (iv)$$

$$x + B = \frac{a}{r} = 1 \rightarrow r \cdot x^r + r \cdot B^r + r \cdot B^r - r \cdot B = 1V \rightarrow r \cdot (x^r + B^r) + r \cdot B(B-1) = 1V$$

$$x \cdot (1 - rxB) - r \cdot xB = r \cdot -xB - r \cdot xB = 1V \rightarrow r \cdot -9 \cdot xB = 1V \rightarrow 9xB = 3$$

$$xB = \frac{1}{r} = \frac{-b}{a} \rightarrow a = -r \cdot b \quad -r \cdot bx^r + r \cdot bx - b \rightarrow x - B = \frac{\sqrt{\Delta}}{ra} = \frac{\sqrt{f \cdot b^r - B \cdot r \cdot b^r}}{1 - r \cdot b}$$

$$\frac{r\sqrt{\Delta}}{a} \cdot \frac{x|B|\sqrt{a}}{y|a|} = \frac{\sqrt{r \cdot b^r}}{r|b|}$$

$$(1, a, B), (1, B) \quad xS = \frac{1-a}{r} \cdot -r \left\} \rightarrow S \left| \begin{array}{l} -r \\ -r \end{array} \right. \right. \rightarrow y = ax^r + bx + c = x + \frac{b}{ra} \rightarrow r \rightarrow b = ra \quad (A)$$

$$yS = -\frac{1}{r} \quad \frac{a = -r}{y = -\frac{1}{r}} \quad fa - rb + \frac{r}{r} = -\frac{1}{r} \rightarrow fa - rb = -r \rightarrow fa - ra = -r \rightarrow a = \frac{1}{r}$$

$$C(1, \frac{r}{r})$$

$$y = \frac{1}{r}x^r + rx + \frac{r}{r} \rightarrow B = -\frac{1}{r} + r + \frac{r}{r} = f$$

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$$\mu \alpha^2 + \nu \beta^2 = \frac{\omega}{\mu} (\alpha^2 + \beta^2) + \frac{1}{\mu} (\alpha^2 - \beta^2) = 12\sqrt{2} + 12 \quad 9$$

$$\frac{\omega}{\mu} (s^2 - 2p) + \frac{1}{\mu} (s) (\sqrt{\Delta}) = 12\sqrt{2} + 12$$

$$\frac{\omega}{\mu} (\mu q - 2a) + \frac{1}{\mu} (-q) \left(\frac{|a|}{\sqrt{\mu q - 2a}} \right) = 12\sqrt{2} + 12$$

$$9 \cdot -\omega a + \mu \sqrt{\mu q - 2a} = 12\sqrt{2} + 12 \rightarrow 9 \cdot -\omega a = 12$$

$a = \frac{1}{\omega} \cdot 4$

$$\sqrt{\frac{1}{a}} + \sqrt{\frac{1}{b}} = \omega$$

$$\mu q x^2 - (\alpha + 1) x + 1 = 0$$

$$\alpha + \beta = \frac{m + 1}{\mu q} \quad \alpha \beta = \frac{1}{\mu q}$$

$$\frac{\sqrt{a} + \sqrt{b}}{\sqrt{\alpha \beta}} = \omega \rightarrow \frac{\alpha + \beta + \sqrt{\alpha \beta}}{\alpha \beta} = \omega \Rightarrow \frac{\frac{m+1}{\mu q} + \frac{1}{\mu q}}{\frac{1}{\mu q}} = \frac{m+1+1}{\frac{1}{\mu q}} = \omega$$

$$\rightarrow m\alpha^2 + \mu \alpha + 1 = -\alpha^2 + \mu \alpha + 1 = 0 \rightarrow \text{Winkel } = -2$$

Lösung

$$m + \mu q = \omega \rightarrow m = -1$$