

نادر هم درستی

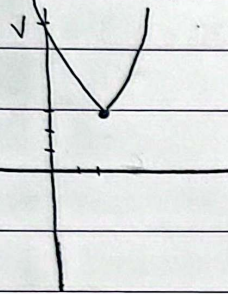
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الف)  $y = x^2 - 2x + 1$

$\Delta < 0 \rightarrow \text{خطی}$   $x_s = -\frac{b}{2a} = \frac{1}{1} = 1$

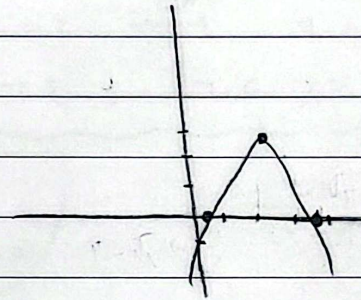
$y_s = 1 - 1 + 1 = 1$



ب)  $y = -x^2 + 4x - 1$

$\Delta = 16 - 4 = 12$   $-4 \pm 2\sqrt{3}$

$2 \pm \sqrt{3}$   $x_s = \frac{-4 \pm 2\sqrt{3}}{-2} = 2 \pm \sqrt{3}$   $y_s = 3$



$2mx^2 + (m+1)x + \frac{1}{2}m + 1 = 0 \rightarrow 4xm + 14$

$\Delta > 0$  (الف) ②

$\Delta = m^2 + 2xm + 1 - 4x^2(\frac{m}{2} + 1) = m^2 - 2xm + 14$   $(m+3)(m-5)$

$m^2 - 2xm + 14 > 0$   $\frac{-3 \pm 5}{2} \rightarrow (-\infty, -3) \cup (5, +\infty)$

$m \in (-3, 5) \Delta < 0$  (ب)

$m = \{-3, 5\} \Delta = 0$  (ج)

$m \in [-3, 5] \Delta \geq 0$  (د)

s.a.m

$$y = (m-r) \alpha^r = \frac{(r m + r)}{r(m+1)} \alpha + 1$$

(3) الف

$$\Delta = r m^r + r + \Lambda m - r(m-r) = r m^r - r m + \Lambda r \quad \frac{-1 \pm r}{1 \pm \phi - \frac{r}{2}}$$

$$\Delta < 0, \oplus \quad \Delta > 0 \rightarrow r(m^r - \Lambda m + r) > 0 \rightarrow \frac{r m + r}{m - r} < 0 \quad m \in (-1, r)$$

$$p > 0 \quad \frac{1}{r-m-r} > 0 \quad m > r \quad \cap \rightarrow \emptyset$$

$$p < 0, s < 0 \rightarrow \frac{1}{m-r} < 0 \quad m < r \quad \frac{r m + r}{m - r} < 0 \quad m \in (-1, r) \quad \cap \rightarrow m \in (-1, r)$$

$$y = (m-r) \alpha^r - r(m+1) \alpha + 1$$

(4) الف

$$\Delta > 0 \rightarrow \checkmark \quad p = \frac{c}{a} < 0 \quad \frac{1}{m-r} < 0 \quad m < r \quad (-\infty, r)$$

$$\frac{r b}{r a} = r \quad \frac{-r m - r}{r m - r} = r \quad \Sigma m - \Lambda = -r m - r \quad \cap \rightarrow m = 1$$

$$\frac{r}{r} \alpha^r - (r \sin \alpha) \alpha + \frac{r}{r} = 0 \quad \Delta = r \sin^2 \alpha - r = r(\sin^2 \alpha - 1) \quad \sin^2 \alpha - 1 \geq 0 \quad \sin^2 \alpha > 1 \rightarrow \sin^2 \alpha =$$

$$\left\{ \begin{array}{l} \sin \alpha = 1 \\ \sin \alpha = -1 \end{array} \right. \quad \frac{r}{r} \alpha^r - r \alpha + \frac{r}{r} \rightarrow \alpha = -\frac{b}{r a} = \frac{r}{r} = \frac{r}{r}$$

s.a.m

$$\frac{r}{r} \alpha^r + r \alpha + \frac{r}{r} \rightarrow \alpha = -\frac{b}{r a} = \frac{-r}{r} \quad \Sigma = r$$

$$y = \frac{(r(m+1)(m-1) - (m+1)(rm - a))}{(rm - rm - 1)(rm - rm - a)} = (-rm - 1)(rm - a) \quad (4)$$

$$\max = -\frac{\Delta}{2a} \quad \Delta = 14 \quad -4m^2 + 14m + a = 0$$

$$\frac{14}{2 \times 4} \quad \frac{14}{8}$$

$$rm - (m+1)m - r = 0 \quad (5)$$

$$rs = a + v$$

$$2r + 3r = ?$$

$$rm + 4 = vm - 10$$

$$s = \frac{m+r}{m} \quad p = -\frac{r}{m} \quad \frac{rm+4}{m} = -\frac{10}{m} + v = \frac{vm-10}{m} \quad \downarrow \quad m=r$$

$$s = \frac{4}{r} = \frac{r}{r} \quad p = -\frac{1}{r} \quad 2r + 3r = sr - rp = \frac{9}{r} + 1 = \frac{14}{r}$$

$$s = a$$

$$r(a - b)$$

$$ar - 2a + p = 0$$

$$\left( \frac{r}{a} + \frac{3}{b} \right) = ?$$

(A)

$$br - 2b - r$$

$$br - 2br - r = r^2b - 10$$

$$r(b - 10)$$

$$br = b(r^2b - 10) = r^2b^2 - 10b = 10ab - r^2$$

$$b^2 = b(10ab - r^2) = r^2vab - r^2$$

$$r_0 = r(b + r^2vab - r^2) = (19) \cdot r(b - 10)$$

$$\frac{r^2vab - 190}{r(b - 10)} = \frac{19}{1} \quad \text{s.a.m}$$

$$y_1 = ax^r + bxe^{-r} \xrightarrow{-r} a = -r \begin{cases} y_1 = 9a - r^2b + \varepsilon \\ y_r = r \end{cases} \quad (9)$$

$$y_r = rx + b \quad 9a - r^2b + \varepsilon = \varepsilon \quad 9a = r^2b \quad \underline{b = \frac{r^2}{9}a}$$

$$x = r \rightarrow \begin{cases} y_1 = ra + r^2b + \varepsilon \\ y_r = r\varepsilon \end{cases} \quad \begin{aligned} ra + r^2b &= 10 \\ ra + b &= 0 \end{aligned} \rightarrow \begin{aligned} ra + r^2b &= 10 \\ ra + \frac{r^2}{9}a &= 10 \end{aligned}$$

$$a = 1, \quad b = r^2 \rightarrow \text{جواب} = a_s = -\frac{b}{ra} = \frac{-r^2}{r} = -r$$

$$y = rax^r + (m+1)x + m + y = x \quad \Delta = 0 \quad (10)$$

$$rax^r + mx + m + y = 0 \quad \Delta = m^2 - r(r)(m+1)$$

$$m^2 - 1m - r^2 = 0 \quad (m+r)(m-r) = 0 \quad \wedge m+r$$

$$m = \begin{Bmatrix} -r \\ r \end{Bmatrix}$$