

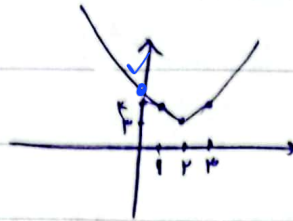
تأليف ۱۲۰

۱۱ سکھ ۱۱

بهره‌آفرینی و بازدهی (فصل ۴)

19, Va

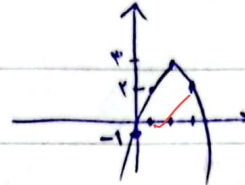
الف) $y = x^2 - 4x + 4$



Δζ. → 19-21 ζ.

$$\text{set} \begin{array}{c|c} & \nu \\ \hline \nu & \end{array} \rightarrow \begin{array}{c|cc} \pi & 1 & \nu \\ \hline \gamma & \varepsilon & \nu \end{array}$$

$$Q. y^2 - x^2 + 6x - 1 \quad \rightarrow \quad \begin{array}{c|cc} x & 1 & y \\ y & x & y \end{array}$$



$$\Delta)_0 \rightarrow (m+1) - 1 \left(\frac{1}{p} m + r \right) - m^r - r m - 1 \Delta)_0 \rightarrow m \cdot 1 B - [-r, \omega] \quad (الف) \quad -r$$

$$\Delta s_0 \rightarrow m^2 - 2m - 1 \Delta s_0 \rightarrow m^2 - 1, \omega$$

$$10 \Delta f_0 \rightarrow m' - y_m - 10 f_0 \rightarrow m - \mu, m \leq 8 \rightarrow m_s(-\mu, 8) \quad (2)$$

$$\Delta_{\gamma,0} \rightarrow m^2 - 2m - 10, \quad m \rightarrow \frac{1}{2} \rightarrow m \in (-\infty, -\frac{1}{2}] \cup [\frac{1}{2}, +\infty) \quad (2)$$

$$\begin{array}{l} \Delta). \\ \text{SY}. \\ \text{P}). \end{array} \quad \left. \begin{array}{l} \frac{r_{m+r}}{m-r} \rightarrow \frac{-1}{+} \frac{r}{-1} \rightarrow (-1, r) \\ \frac{1}{m-r} \rightarrow \frac{r}{-p+} \rightarrow (r, +\infty) \end{array} \right\} \xrightarrow{\Delta} \emptyset \quad \text{الف - ٣}$$

$$1 \cdot (m-2) \{ \cdot \rightarrow m \{ \cdot \rightarrow \frac{1}{1+}$$

$$15 \frac{-b}{a} r_0 \rightarrow \frac{r_0 + r}{r_0 - r} r_0 \rightarrow \frac{-1}{+1-1} r_0 \rightarrow (-1, r)$$

$$y = \frac{(x^2 - 4x - 1)(x^2 - 3x - 0)}{1 - x^2} = \frac{(x-1)(x+1)(x+1)(x-3)}{(x-1)(x+1)} = 4 \quad -4$$

$$\begin{array}{r} x^2 - 4x - 1 \quad | \quad x-1 \\ x^2 - x \quad \quad \quad \\ \hline -3x - 1 \end{array}$$

$$\begin{array}{r} x^2 - 3x - 0 \quad | \quad x-1 \\ x^2 - x \quad \quad \quad \\ \hline -2x - 0 \end{array}$$

$$= (x+1)(x-3)$$

$$= 4x^2 - 13x - 3 \quad (5)$$

$$\left(\frac{149}{15} \right) = \frac{149 - E(-1) - 0}{15} = \frac{154}{15} = \max \quad 5$$

$$PS = \Delta P + V \rightarrow P \left(\frac{m+r}{m} \right) = \Delta \left(\frac{r}{m} \right) + V \quad -V$$

$$\frac{Pm+r}{m} = \frac{-10 + Vm}{m} \rightarrow Pm+r = -10 + Vm \rightarrow m = 5 \quad (5)$$

$$Em^2 - 4m - 2 = 0 \rightarrow S = \frac{4}{E} = \frac{4}{2} = 2, P = \frac{2}{E} = \frac{1}{1} = 1, \rightarrow \frac{4}{E} + 1 = \frac{13}{E} \quad 10$$

$$\frac{E\alpha}{\gamma} + \frac{\beta^2}{\delta} = \frac{\alpha^2}{\delta} + \frac{\beta^2}{\delta} = \frac{1}{\delta} (\alpha^2 + \beta^2)$$

$$= \frac{1}{\gamma} (S^2 - P^2) = \frac{1}{8} (13^2 - 1^2) = 19 \quad (5)$$

$$\Delta \beta^2 = \frac{E}{\alpha^2}$$

$$y_1 = Pm+1, \quad x = 1, \quad y_1 = 1E$$

$$y_1 = ax^2 + bx + c, \quad x = 1, \quad y_1 = E$$

$$\begin{cases} Ea + Pb = 1 \\ 2a - Pb = 0 \end{cases}$$

$$a = 1, b = 1 \quad (5)$$

$$x^2 + 3x + E \rightarrow x_5 = \frac{-b}{2a} = \frac{-3}{2}$$

$$Px^2 + (m+1)x + x + 4 = x \rightarrow Px^2 + mx + x + 4 = x$$

$$\Delta = m^2 - E(1)(m+4) = 0 \rightarrow m^2 - 1m - 4 = 0 \rightarrow m = \frac{1 \pm \sqrt{17}}{2} \quad 20$$