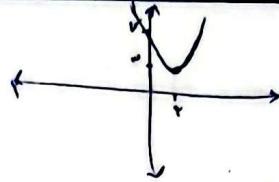
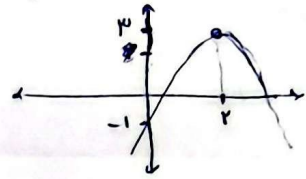


الف) $\Delta y_0 \rightarrow (m+1)^2 - 1(\frac{1}{2}m+2) y_0 \rightarrow m^2 - 2m - 1 \Delta y_0 \rightarrow (m-3)(m+3) y_0 \rightarrow \frac{-3}{+} + \frac{3}{-}$



ب) $\Delta y_0 \rightarrow (m+1)^2 - 1(\frac{1}{2}m+2) y_0 \rightarrow m^2 - 2m - 1 \Delta y_0 \rightarrow (m-3)(m+3) y_0 \rightarrow \frac{-3}{+} + \frac{3}{-}$



الف) $\Delta y_0 \rightarrow (m+1)^2 - 1(\frac{1}{2}m+2) y_0 \rightarrow m^2 - 2m - 1 \Delta y_0 \rightarrow (m-3)(m+3) y_0 \rightarrow \frac{-3}{+} + \frac{3}{-}$

$m < -3, m > 3$

ب) $\Delta = 0 \rightarrow m^2 - 2m - 1 = 0 \rightarrow (m-3)(m+3) = 0 \rightarrow m = \{-3, 3\}$

ج) $\Delta y_0 \rightarrow (m+1)^2 - 1(\frac{1}{2}m+2) y_0 \rightarrow m^2 - 2m - 1 \Delta y_0 \rightarrow \frac{-3}{+} + \frac{3}{-} \rightarrow m < -3$

د) $\Delta y_0 \rightarrow (m+1)^2 - 1(\frac{1}{2}m+2) y_0 \rightarrow m^2 - 2m - 1 \Delta y_0 \rightarrow \frac{-3}{+} + \frac{3}{-} \rightarrow m < -3$

الف) $\Delta y_0 \rightarrow (m+1)^2 - 1(\frac{1}{2}m+2) y_0 \rightarrow m^2 - 2m - 1 \Delta y_0 \rightarrow \frac{-3}{+} + \frac{3}{-}$

$P y_0 \rightarrow \frac{1}{m-2} y_0 \rightarrow \frac{1}{-} + \frac{1}{+} \rightarrow (2, +\infty) = m$

$S y_0 \rightarrow \frac{1}{m-2} y_0 \rightarrow \frac{1}{-} + \frac{1}{+} \rightarrow (2, +\infty) = m$

$\Delta y_0 \rightarrow \frac{1}{m-2} y_0 \rightarrow \frac{1}{-} + \frac{1}{+} \rightarrow (-1, 2) = m$

بازای هیچ مقدار m

ب) $\Delta y_0 \rightarrow \frac{1}{m-2} y_0 \rightarrow \frac{1}{-} + \frac{1}{+} \rightarrow (-1, 2) = m$

الف) $\Delta y_0 \rightarrow (m+1)^2 - 1(\frac{1}{2}m+2) y_0 \rightarrow m^2 - 2m - 1 \Delta y_0 \rightarrow \frac{-3}{+} + \frac{3}{-} \rightarrow m < -3$

ب) $m_5 = -2 \rightarrow -\frac{b}{2a} = -2 = \frac{x(m+1)}{x(m-2)} \rightarrow -2m + 2 = m + 1 \rightarrow m = 1$

$\Delta y_0 \rightarrow (2 \sin \alpha)^2 - 1(\frac{1}{2}(\frac{1}{r})) y_0 \rightarrow 2 \sin^2 \alpha y_0 \rightarrow \sin^2 \alpha y_0 \rightarrow \sin^2 \alpha = 1$

$\sin \alpha = \pm 1 \rightarrow \frac{1}{r} x^2 - 2x + \frac{1}{r} = 0 \rightarrow x = \frac{2 \pm \sqrt{4-4}}{\frac{2}{r}} = \frac{2}{r}$

موردنوع (مربع)

$$q_5 = \frac{-1}{\Sigma a} = ? \quad \frac{-(13a+1)(-m+1)(1m-\omega)(a+1)}{(1-m)(1+m)} = -13a^2 + 13a + \omega$$

$$y_5 = \frac{-(13^2 - 13(-4)(\omega))}{-12} = \frac{1349}{12}$$

4

$$\begin{aligned} r(\alpha + \beta) &= \omega \alpha \beta + 1 \rightarrow r\left(\frac{m+r}{m}\right) = \frac{-10}{m} + 1 \rightarrow \frac{13m+4}{m} = \frac{-10+vm}{m} \rightarrow 14 = \Sigma m \\ &\quad r = m \\ S = \alpha + \beta &= \frac{m+r}{m} \rightarrow \alpha + \beta = \frac{1}{r} = \frac{1}{m} \\ p = \alpha \beta &= \frac{-r}{m} \rightarrow \alpha \beta = \frac{-r}{\Sigma} = \frac{-1}{r} \\ S^2 - 2p &= \alpha^2 + \beta^2 \Rightarrow \frac{1}{\Sigma^2} + 1 = \frac{13}{\Sigma} \end{aligned}$$

V

$$\begin{aligned} \beta^r &= \omega \beta - r \\ \beta^r &= \beta \alpha \beta^r = \beta(\omega \beta - r) = \omega \beta^r - r\beta = \omega(\omega \beta - r) - r\beta = 13\beta - 10 \\ \beta^r &= \beta \alpha \beta^r = \beta(13\beta - 10) = 13\beta^2 - 10\beta = 13(\omega \beta - r) - 10\beta = 10\omega \beta - 13r \\ \beta^\omega &= \beta \alpha \beta^\omega = \beta(10\omega \beta - 13r) = 10\omega \beta^2 - 13r\beta = 10\omega(\omega \beta - r) - 13r\beta = 10\omega^2 \beta - 13\omega r - 13r\beta \\ \frac{\Sigma \alpha + \beta^\omega}{\omega \beta^r} &= \frac{\Sigma(\omega - \beta) + 10\omega \beta - 13r}{\omega \beta^r} = \frac{\Sigma \omega \beta - 13r}{\omega \beta^r} = \frac{4\omega \beta - 13}{\omega \beta - r} = 19 \end{aligned}$$

Λ

$$\begin{aligned} y_r &= \begin{vmatrix} -13 \\ r \end{vmatrix} \rightarrow r = 4a - 13b + r \rightarrow \boxed{a - b = 0} \\ y_r &= \begin{vmatrix} 13 \\ 13 \end{vmatrix} \rightarrow 13 = 8a + 13b + r \rightarrow \boxed{8a + 13b = 10} \\ \begin{cases} 13a - b = 0 \\ 8a + 13b = 10 \end{cases} &\rightarrow \begin{cases} 13a - 8b = 0 \\ 8a + 13b = 10 \end{cases} \rightarrow \begin{cases} 13a - 8b = 0 \\ 13a - 8b = 10 \end{cases} \rightarrow a = \frac{10}{14} = \frac{5}{7}, b = \frac{13}{14} \\ &\rightarrow \frac{5}{7}a^2 - \frac{13}{14}a + r = 0 \end{aligned}$$

9

$$\begin{aligned} \text{نقاط تقاطع} &\Rightarrow y = x \rightarrow 13x^2 + (m+1)x + m + 4 = x \rightarrow 13x^2 + mx + m + 4 = 0 \\ \omega_{10} = \Delta = 0 &\Rightarrow m^2 - 4(m+4) = 0 \rightarrow m^2 - 4m - 16 = 0 \rightarrow (m-12)(m+4) = 0 \rightarrow m = \{-4, 12\} \\ \text{نقطة تقاطع} &\Rightarrow m+1 < 0 \rightarrow m < -1 \\ &\Rightarrow m = -5, m = 12 \end{aligned}$$

10