

$$\frac{-b}{ra} = -1 \rightarrow b = ra \quad \frac{-\Delta}{ra} = 9 \rightarrow -44a = b^r - 4a$$

$$9a + rb + c = 1 \xrightarrow{b=ra} 9a + 4a + c = 1 \rightarrow c = 1 - 13a \rightarrow -13a = b^r - 4a \xrightarrow{*}$$

$$-13a = b^r - 4a \rightarrow 9a + 4a + c = 1 \rightarrow 44a^r + 4a = 0 \rightarrow a = 0 \quad X$$

$$-\frac{1}{4} \checkmark \rightarrow b = -1, c = 1, d$$

$$-\frac{1}{4}m^r - m + 1, d = y$$

$$\Delta y_0 \rightarrow m^r - 4(1)(m+4) = m^r - 4(4m+16) = m^r - 16m - 64 y_0 \rightarrow$$

$$(m-4)(m-4) y_0 \rightarrow \frac{-4}{+4} - \frac{16}{+4} \rightarrow \frac{m+4}{4} y_0 \rightarrow \frac{-4}{-4+}$$

$$\frac{-m}{4} y_0 \rightarrow \frac{+4-}{-4-}$$

$$\Delta y_0 \rightarrow 4m^r + 1 - 4m - 4(1)(4-m) = 4m^r + 1 - 4m - 4(4-m) = 4m^r - 4m + 16m + 1 - 16$$

$$4m^r + 16m - 44 y_0 \rightarrow \frac{1-16m}{4} = \frac{4}{4-16} \rightarrow 4 = (1-16m)(4-16) \rightarrow 4 = 4-16-64m+256m$$

$$4m^r - 16m - 4 = 0 \rightarrow m^r - 4m - 1 = 0 \rightarrow (m-4)(m+1) \rightarrow m = -1 \rightarrow \Delta y_0 \checkmark$$

$$m^r - m - 4 = 0 \rightarrow m_1 + m_2 = 1, m_1 \times m_2 = -4 \rightarrow m_1^r + m_2^r = 1 - 4(-4)(1) = 17$$

$$m_1^r + \frac{1}{m_2} = \frac{m_1^r \times m_2 + 1}{m_2} = \frac{-4m_1^r + 1}{m_2}$$

$$m_2^r + \frac{1}{m_1} = \frac{m_2^r \times m_1 + 1}{m_1} = \frac{-4m_2^r + 1}{m_1}$$

$$P_2 \frac{(1-4m_1^r)(1-4m_2^r)}{m_1 m_2} = \frac{1-4m_1^r - 4m_2^r + 16m_1^r m_2^r}{-4} = \frac{1-4(9)+16(17)}{-4} = \frac{271}{-4}$$

$$m^r - 5m + P = m^r - 17, V, d, m - \frac{271}{4}$$

$$\rightarrow \text{سب} = t^r - d^r + 1 - \frac{1}{d^r} + d^r - 1 + \frac{d^r}{d^r} = t^r - \frac{1}{d^r} = 4d^r \rightarrow d^r - 1 = 4d^r$$

$$d^r - 4d^r - 1 = 0 \rightarrow d^r = 2 \rightarrow 2^r - 42 - 1 = 0 \rightarrow 2 = 1 \pm \sqrt{4} \rightarrow d^r = 1 \pm \sqrt{4} \rightarrow d = \sqrt{1+\sqrt{4}}, \sqrt{1-\sqrt{4}}$$

$$m = d^r \rightarrow m_1 = (d^r)^r \rightarrow m_1 + m_2 = 1 + \sqrt{4} + 1 - \sqrt{4} = 2$$

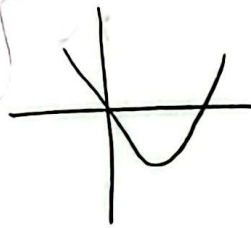
$$\frac{c}{a} = \frac{f}{r} \rightarrow M_1 \times M_r = \frac{f}{r} \rightarrow M_r = \frac{f}{M_1} \rightarrow 3M_1 = \frac{f}{r} \rightarrow 9M_1 = f \rightarrow 3M = f$$

$$M_1 = \frac{f}{r} \text{ و } M_r = f \quad \frac{-b}{a} = \frac{c}{r} = \frac{1}{r} \rightarrow \frac{-b}{a} = \frac{a}{r} = \frac{-1}{r} \rightarrow a = \begin{cases} a = -1 \\ a = 1 \end{cases}$$

$$M_1 = -\frac{f}{r} \rightarrow M_r = -f$$

$$1 - (-1) = 2 \text{ جواب}$$

$$\frac{-\frac{f}{r}}{-\frac{f}{r} + a} = -\frac{f}{r} \text{ و } a = 1$$



$$a = 1 \quad \frac{-b}{a} = \frac{-(f+1a)}{1} = -f$$

استرک دو ناحیه تعریف است

$$M = -\frac{-f}{-r} = -1 \text{ و } M = -\frac{a}{r} \rightarrow -\frac{a}{r} = -1 \rightarrow a = r$$

$$y = M^2 + 2M - 2 \rightarrow M^2 + 2M - 2 = 1 \rightarrow M^2 + 2M - 3 = 0 \rightarrow \begin{cases} M = 1 \\ M = -3 \end{cases}$$

$$y = -M^2 - 2M + b \rightarrow 1 = -9 + 4 + b \rightarrow b = 6 \text{ و } -M^2 - 2M + b \rightarrow 1 = -1 - 2 + b \rightarrow b = 4$$

$$ab = 1$$

$$M_1, M_r \rightarrow y_1 + \frac{1}{r} \text{ و } y_r + \frac{1}{r} \rightarrow S = y_1 + y_r + 1 = \frac{a}{r} \rightarrow -\frac{1}{r} + 1 = \frac{a}{r}$$

$$y_1, y_r \rightarrow y_1 + y_r = S = -\frac{a}{ra} = -\frac{1}{r}$$

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

$$M_1 M_r = (y_1 + \frac{1}{r})(y_r + \frac{1}{r}) = y_1 y_r + \frac{y_1}{r} + \frac{y_r}{r} + \frac{1}{r^2} \Rightarrow -ra + \frac{1}{r}(-\frac{1}{r}) + \frac{1}{r^2} \rightarrow$$

$$y_1 y_r = -ra$$

$$-ra = \frac{b}{r} \xrightarrow{a=1} -r = \frac{b}{r} \rightarrow b = -r$$

$$\left[\frac{1x-9}{f} \right] = \left[-\frac{9}{f} \right] = -2$$

$$m = -m \checkmark$$

$$m = m = 0 \times$$

$$\begin{cases} M^2 + 2M - 3m = y \\ M^2 + 4M + m = y \end{cases} \rightarrow \begin{cases} M^2 + 2M - 3m = M^2 + 4M + m \\ 2M - 3m = 4M + m \\ -2m = 2M \\ m = -M \end{cases} \rightarrow fM + fm = 0 \rightarrow (f)(m+m) = 0$$

$$M^2 + 4M - m = 0 \rightarrow M^2 + 4M = 0 \rightarrow (M)(M+4) = 0 \rightarrow M = -4 \rightarrow 0 \times$$

$$M^2 + 2M - 3(-M) = 0 \rightarrow M^2 + 5M = 0$$

$$M^2 + 4M + 4 = 0 \rightarrow (M+2)^2 = 0 \rightarrow M = -2$$

$$M^2 + 2M - 10 = 0$$