

$$y = am^p + b m + c$$

$$y = am^p + am + c$$

$$y = am^p + 4am + c$$

$$-\frac{1}{p} m^p - m + \frac{4}{p} = y$$

$$-b = -1$$

$$fb = 14$$

$$y=9 \Rightarrow x=-1$$

$$a - 4a + c = 9$$

$$-a + c = 9$$

$$y=1 \Rightarrow x=3$$

$$9a + 4a + c = 1$$

$$14a + c = 1$$

$$14a = -1 \Rightarrow a = -\frac{1}{14}$$

$$c = \frac{14}{p}$$

$$m^p + mm + m + 4 = 0$$

$\Delta > 0$	$\Delta = 0$	$\Delta < 0$
$\begin{pmatrix} + & + \\ + & - \\ 0 & + \\ 0 & - \end{pmatrix}$	$\begin{pmatrix} + \\ 0 \\ 0 \end{pmatrix}$	X/X

$$(-\infty, 0) \cap (-4, +\infty) \cap ((1, +\infty) \cup (-\infty, -4)) = (-4, -1)$$

$$\Delta > 0 \Rightarrow S > 0 \Rightarrow \frac{b}{a} > 0 \Rightarrow \frac{-m}{p} > 0 \Rightarrow m < 0$$

$$p > 0 \Rightarrow \frac{m+4}{p} > 0 \Rightarrow m > -4$$

$$m^p + (m-1)m + 1 - m$$

$$S = \frac{-b}{a} = \frac{-1m+1}{m} \quad p = \frac{c}{a} = \frac{1-m}{m}$$

$$\frac{-1m+1}{m} = \frac{1}{1-m}$$

$$m^p - am + 1 = 0$$

$$m^p - am - 1 = 0 \Rightarrow m^p - am - 1 = 0 \Rightarrow (m-1)(m+1)$$

$$m = \frac{1}{p}$$

$$m^p + 4m - \frac{1}{p} = 0 \Rightarrow m = \frac{1}{p}$$

$$(m - (m_p^p + \frac{1}{m_1})) (m - (m_p^p + \frac{1}{m_p})) = m^p - (m_p^p + m_p^p + \frac{1}{m_1} + \frac{1}{m_p}) m + \frac{1}{m_1 m_p}$$

$$\Rightarrow m^p - \frac{a1}{p} m - \frac{p1}{p} = 0$$

$$(\sqrt[p]{m^p} + \frac{1}{\sqrt[p]{m^p}} + 1) (\sqrt[p]{m^p} - 1) = p \sqrt[p]{m}$$

$$\sqrt[p]{m^p} = t \Rightarrow m = t^{\frac{p}{p}}$$

$$(t + \frac{1}{t} + 1) (t - 1) = t^p + 1 + t - t - \frac{1}{t} - 1 = p \sqrt[p]{t}$$

$$t^p - \frac{1}{t} = p \sqrt[p]{t}$$

$$m_1 + m_p = +1 + \sqrt[p]{p+1} - \sqrt[p]{p} = +1$$

$$m^p - pm - 1 = 0 \Rightarrow t^p - 1 = p t^{\frac{p}{p}} t$$

$$p(m - m_1)(m - pm_1) = pm^2 - am + p = 0$$

$$s = \frac{-b}{a} \quad p = \frac{c}{a}$$

$$1\sqrt{p} = (-1\sqrt{p}) = 14\sqrt{p}$$

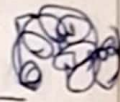
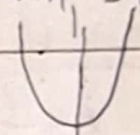
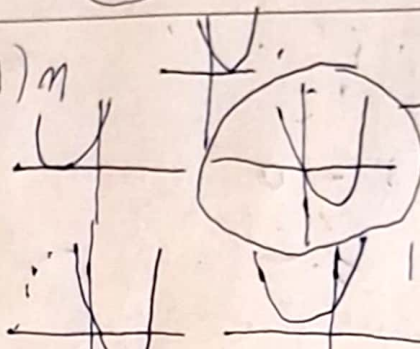
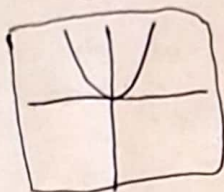
$$\frac{+am}{p} = +pm_1$$

$$a = 1p \times \frac{1\sqrt{p}}{p} = 1\sqrt{p} \quad \frac{1\sqrt{p}}{p} = \frac{1\sqrt{p}}{p} = (-1\sqrt{p})$$

$$pm^2 = p \Rightarrow m_1 = \pm \sqrt{\frac{p}{p}} = \pm \frac{1\sqrt{p}}{p}$$

$$y = am^2 + (p + pm)m$$

$a \neq 0$



طالعاً مقلوباً

عوضاً عن المربع

$$-m^2 - pm + b = y$$

$$\frac{+p}{-p} = -1 \quad m = -1$$

$$y = m^2 + am - p$$

$$y = m^2 + pm - p$$

$$\frac{-a}{p} = -1$$

$$a = p$$

$$ab = 1 \times p = 1$$

$$-m^2 - pm + b = m^2 + pm - p = 1 \Rightarrow m^2 + pm - p = 0$$

$$-9 + 4 + b = 1 \quad b = 6$$

$$\Rightarrow (m + p)(m - 1) = 0$$

$$-1 - p + b = 1 \quad b = p$$

$$pm^2 - am + b = 0 \Rightarrow S = \frac{+a}{p}$$

$$pm^2 + am - p = 0 \Rightarrow S' = \frac{-a}{p} = \frac{a}{p} - 1$$

$$pm^2 + m - p = 0$$

$$(m + p)(m - p) = 0$$

$$\left[\frac{ab}{p} \right] = \left[\frac{-4}{p} \right] = (-p)$$

$$m^2 + pm - pm = 0$$

$$\Rightarrow \alpha^2 + p\alpha + pm = 0$$

$$m^2 + 4m + m = 0$$

$$\Rightarrow \alpha(\alpha + 4) = 0$$

$$\Rightarrow \alpha^2 + p\alpha - pm = \alpha^2 + 4\alpha + m$$

$$-p\alpha = pm$$

$$m^2 + pm - 10 = 0$$

$$(m + 10)(m - 1) = 0$$

$$m^2 + 4m + 10 = 0$$

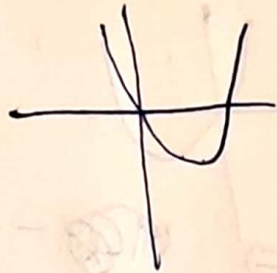
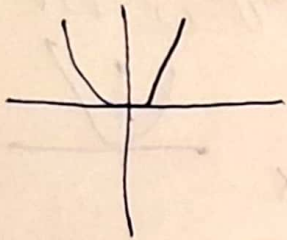
$$(m + 10)(m - 1) = 0$$

$$\Rightarrow m = 0$$

$$\begin{cases} \alpha = -1 \\ \alpha = -10 \end{cases}$$

$$p - (-1) = 15$$

ادامه سوال



بازای بعضی مقادیر

$$(0, +\infty) \cap (-\infty, -\frac{p}{q}] = \emptyset$$

$$\alpha > 0$$

$$p = 0 \quad \text{معادله}$$

$$S \geq 0 \quad \frac{-b}{2a} \geq 0$$

$$\Delta \geq 0$$

معادله دارد

$$\alpha > 0$$

$$\Rightarrow \alpha \in (-\infty, -\frac{p}{q}]$$

$$\Rightarrow p + p \leq 0$$

$$\Rightarrow b \leq 0$$

$$(p + p) \geq 0 \quad \checkmark$$