

سپس مقدره تعریف نموده ۱۴ باز در دفتر

$$y = -a^2 + ba + c \quad b^2 + 12 \quad (1)$$

$$y = 7 \rightarrow -\Delta = 7 \quad \Delta(b^2 - 4(-1)(c)) = 7$$

$$b^2 + 12 = 14 \rightarrow b^2 = 2 \rightarrow b = \pm \sqrt{2}$$

$$\text{الف) } f(a) = a^2 + 2a + 3 \quad a^2 = 4 \quad (2)$$

$$a^2 + 2a + 3 = (a+1)(a+3)$$

$$f(a) = (a^2 - 4)^2 - 2(a^2 - 4) - 15 \quad \text{رشته نهد} \rightarrow -200 \rightarrow -15 \rightarrow 000$$

$$a^2 - 2a - 15 = 0 \rightarrow (a-5)(a+3) = 0$$

$$a^2 - 4 = 0 \rightarrow a^2 = 4 \rightarrow a = \pm 2 \quad a = 5 \rightarrow a = -3$$

$$a^2 - 4 = -3 \rightarrow a^2 = 1 \rightarrow a = \pm 1$$

$$6a^2 - 12a + m = 0 \quad \alpha \text{ و } \alpha + 2 \quad (3)$$

$$P = \alpha(\alpha + 2) = 1 \times 3 = 3 = \frac{m}{6} \rightarrow m = 12$$

$$S = \alpha + \alpha + 2 = 2\alpha + 2 = 4 = 6 \rightarrow 2\alpha = 4 \rightarrow \alpha = 2$$

$$2a^2 - 4a + m - 1 = 0 \quad \begin{cases} 2\alpha - \beta = \alpha \\ \alpha + \beta = 2 \end{cases} \quad (4)$$

$$S = \alpha + \beta = \frac{4}{2} = 2$$

$$P = \alpha\beta = 0 = \frac{m-1}{2} \quad 2\alpha = 4 \rightarrow \alpha = 2 \rightarrow \beta = 0$$

$$\rightarrow m - 1 = 0 \rightarrow m = 1$$

$$-ma^r + ca + m^r - r = 0$$

(2)

$$p = \alpha + \frac{1}{\alpha} = 1 \Rightarrow \frac{c}{\alpha} = 1 \Rightarrow c = \alpha \Rightarrow m^r - r = -m$$

در صورتی

$$m^r + m - r = 0 \rightarrow (m+r)(m-1) = 0$$

مطلوب

$$\Delta > 0 \xrightarrow{m=1} b^r - c_{ac} = 14 - c(-1)(1) = 14 - c = 12 \quad \text{و و و}$$

$$\xrightarrow{m=-r} 14 - c(+2)(2) = 14 - 14 = 0 \quad \text{و و و}$$

$$\Rightarrow \boxed{m=1}$$

$$a^r - ma + p = 0 \quad \alpha \beta^r = c$$

(7)

$$p = \alpha \beta = \frac{c}{\alpha} = p$$

$$\frac{\alpha \beta^r}{\alpha \beta} = \beta = \frac{c}{p}$$

$$\beta \alpha = p \rightarrow \alpha = p \times \frac{p}{c} = \frac{p^2}{c}$$

$$\beta = \frac{p}{\alpha} = \frac{c}{p} = \frac{27+14}{12} = \frac{c}{12}$$

$$m = \frac{p^2}{12}$$

$$a^r - ca + m = 0 \quad \alpha \text{ و } p\alpha$$

(V)

$$S = \alpha + p\alpha = c\alpha = c \rightarrow \alpha = 1$$

$$p = \alpha(p\alpha) = 1 \times p = p \rightarrow m = p$$

$$a^r - va + r = 0$$

$$\alpha^p + \frac{1}{\alpha^p} = ? \quad \boxed{p=1}$$

(A)

$$\alpha^r + r = va$$

$$\Rightarrow \alpha + \frac{r}{\alpha} = v$$

$$(\alpha + \frac{r}{\alpha})^p = \alpha^p + \frac{1}{\alpha^p} + 4(\alpha + \frac{r}{\alpha})$$

$$\Rightarrow \alpha^p + \frac{1}{\alpha^p} = (\alpha + \frac{r}{\alpha})^p - 4(\alpha + \frac{r}{\alpha})$$

$$= \underbrace{v^p}_{p \times c} - \underbrace{4\alpha v}_{c \times r} = p \cdot 1$$

تاریخ: / /

4

$$h(t) = -1.0t^2 + 5.0t$$

$$y = \frac{-\Delta}{2a} = \frac{-25.0}{-2.0} = 12.5 \rightarrow \text{نقطه ارتفاع قوس}$$

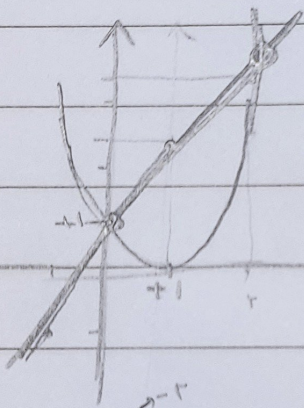
$$h=0 \rightarrow -1.0t^2 + 5.0t = 0 \rightarrow t(-1.0t + 5.0) = 0$$

$$t = 0$$

نقطه شروع: $t=0$ $\rightarrow$ $t=5$ $\rightarrow$ نقطه پایان: $t=5$

الف) $(x-1)^2 = 2x+1$

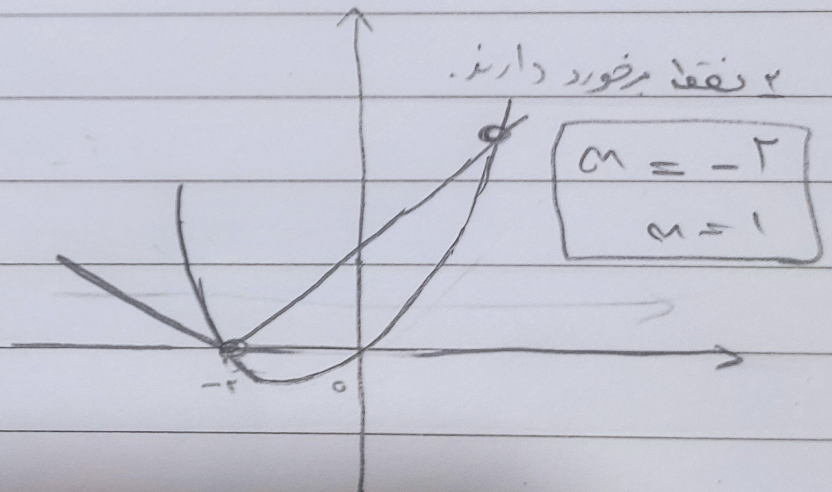
x	0	1	2	-1
y	1	3	5	-1



$$\begin{matrix} x=0 \\ x=2 \end{matrix}$$

۲ عمل می خورد دارند

$$\rightarrow x^2 + 2x = |x+2|$$



۲ فقط می خورد دارند.

$$\begin{matrix} x = -2 \\ x = 1 \end{matrix}$$