

Subject:

نام خانوادگی: ندیم حسین
شماره تلفن: ۱۲

Date:

$$-\frac{\Delta}{F_a} = -V \rightarrow -b^2 - 12 = -14 \Rightarrow b^2 = 14 \rightarrow b = \pm \sqrt{14} \quad (1)$$

$$x^2 = c \rightarrow x^2 + 2x + 3 = 0 \rightarrow \Delta < 0 \rightarrow \text{جواب ندارد} \quad (2)$$

$$x^2 - 2x = c \rightarrow x^2 - 2x - 14 = 0 \rightarrow (x-5)(x+3) = 0 \rightarrow$$

$$x^2 - 2x = 5 \rightarrow -x^2 = 1 \rightarrow x^2 = -1 \times, \quad x^2 - 2x = -3 \rightarrow -x^2 = -1 \rightarrow x = \pm \sqrt{1} \rightarrow x = \pm 1$$

$$\alpha + 2 = \beta \rightarrow S: \alpha + \alpha + 2 = \frac{-b}{a} = \frac{14}{1} = 14 \rightarrow \alpha = 12, \beta = 14$$

$$2\alpha + 2 = \beta \Rightarrow \alpha = 1, \beta = 3 \rightarrow p = \frac{\beta}{\alpha} = \frac{3}{1} \rightarrow \frac{m}{p} = \frac{3}{1} \Rightarrow m = 3$$

$$m = 12, \Delta > 0 \rightarrow 2 \times 14 - 14m > 0 \Rightarrow 14m < 28 \Rightarrow m < 2 \checkmark$$

$$\beta = 2\alpha - 2 \rightarrow S: \alpha + 2\alpha - 2 = 2 \rightarrow 3\alpha = 4 \rightarrow \alpha = \frac{4}{3}$$

$$\rightarrow \beta = 0 \rightarrow p = \frac{m-1}{m} = 0 \rightarrow m-1=0 \Rightarrow m=1 \checkmark$$

$$\Delta > 0 \rightarrow 34 - 12m + 12 > 0 \Rightarrow -12m > -46 \Rightarrow m < \frac{23}{6}$$

$$\frac{c}{a} = 1 \rightarrow \frac{m^2 - 2}{-m} = 1 \Rightarrow m^2 + m - 2 = 0 \Rightarrow m = 1 \checkmark, m = -2 \times$$

$$\rightarrow m = 1 \rightarrow -x^2 + 2x - 1 = 0 \rightarrow \Delta > 0 \checkmark$$

$$\rightarrow m = -2 \rightarrow 2m^2 + 2m + 2 = 0 \rightarrow \Delta = 0 \times$$

$$\alpha = \frac{p}{\beta} \rightarrow p = \frac{\beta}{\alpha} = \alpha \beta \Rightarrow \frac{3}{1} = \frac{1}{\alpha} \times \beta \rightarrow \beta = 3$$

$$\alpha = \frac{9}{9} \rightarrow S = \frac{9}{9} + \frac{9}{9} = m \Rightarrow m = \frac{18}{9} = 2$$

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$$\alpha = \sqrt[3]{\beta} \rightarrow S = \sqrt[3]{\beta} + \beta = 4 \Rightarrow \beta = 1, \alpha = \sqrt[3]{1} \rightarrow m = \alpha\beta = \sqrt[3]{1}$$

(V)

$$a^{\frac{1}{p}} + \frac{1}{a^{\frac{1}{p}}} = \left(a + \frac{1}{a}\right) \left(a^{\frac{1}{p}} - 1 + \frac{1}{a^{\frac{1}{p}}}\right) \rightarrow (a+1)(a^{\frac{1}{p}} + a^{\frac{1}{p}-1})$$

$$1)(4-1-1) = 1$$

(A)

$$p \leq r \leq \alpha\beta \Rightarrow a \leq \frac{r}{\beta}$$

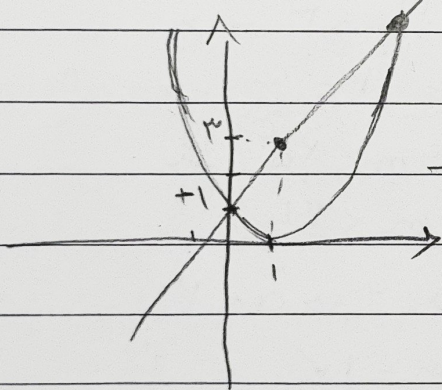
$$h(t) = 10t(-t+4) \xrightarrow{\text{دسته بندی}} h(t) \text{ so } \rightarrow 10t(4-t) \text{ so } \rightarrow$$

(9)

$$t=0 \text{ s}, t=4 \text{ s}$$

$$h_{\max} = -\frac{\Delta}{2a} = -\frac{-40 \times 40}{2 \times 10} = 80 \text{ m}$$

الف)



→ جواب

$$n^2 - 2m + 1 = 2m + 1$$

$$n^2 - 4m = 0 \rightarrow$$

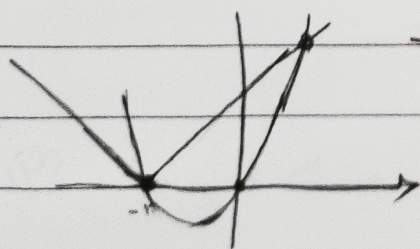
$$n(n-4) = 0 \rightarrow$$

$$(1, 1) \quad (5, 9)$$

(6)

$$n^2 + 2m = n + 2 \rightarrow n^2 + n - 2 = 0 \rightarrow (n-1)(n+2) = 0 \rightarrow n=1, n=-2$$

$$n^2 + 2m = -n + 2 \rightarrow n^2 + 3m + 2 = 0 \rightarrow n = -1, n = -2$$



→ جواب → (-1, -3) (1, 3)