

یا زدهم بید

تکلیف ۱۴
افزین!

۱۹، ۷۵

محمد امین هفتی

$$y_{max} = \frac{-\Delta}{c} = \frac{-(b^2 - 4(-1)(c))}{-4} = \frac{b^2 + 12}{4} = \frac{b^2}{4} + 3 = 7 \Rightarrow \frac{b^2}{4} = 4 \Rightarrow b^2 = 16 \Rightarrow b = \pm 4$$

$$n^2 = t \Rightarrow t^2 + 2t + 2 = 0 \Rightarrow \Delta = 4 - 4(1)(2) = 4 - 8 = -4 < 0 \Rightarrow \text{ریشه ندارد} \Rightarrow \text{ریشه ندارد}$$

$$t - n^2 = t \Rightarrow t^2 - 2t - 1 = 0 \Rightarrow (t - 1)(t + 1) = 0 \Rightarrow t = 1 \text{ or } t = -1 \Rightarrow \text{ریشه ندارد}$$

$$\beta = \alpha + 2 \quad S = \frac{-b}{a} = \frac{17}{2} = 8.5 \Rightarrow \alpha + 2 + \alpha = 2\alpha + 2 = 8.5 \Rightarrow \alpha = 3.25 \Rightarrow \beta = 5.25 \Rightarrow p = \frac{c}{a} = \frac{m}{2} = 1.5 \Rightarrow m = 3$$

$$\Rightarrow \beta = 2\alpha - 1 \Rightarrow S = \frac{-b}{a} = \frac{7}{2} = 3.5 \Rightarrow \alpha + 2\alpha - 1 = 3\alpha - 1 = 3.5 \Rightarrow 3\alpha = 4.5 \Rightarrow \alpha = 1.5 \Rightarrow \beta = 2 \Rightarrow p = \frac{c}{a} = \frac{m-1}{2} = 0 \Rightarrow m = 1$$

$$\beta = \frac{1}{\alpha} \Rightarrow \alpha\beta = 1 = p \Rightarrow \frac{c}{a} = \frac{m^2 - 2}{-m} = 1 \Rightarrow m^2 - 2 = -m \Rightarrow m^2 + m - 2 = 0 \Rightarrow (m+2)(m-1) = 0 \Rightarrow m = -2 \text{ or } m = 1$$

$$p = \frac{c}{a} = \frac{r}{1} = r \Rightarrow \alpha \beta, r \quad \alpha \beta^T (\alpha \beta) \beta = r \beta = r \Rightarrow \beta = \frac{r}{r} \Rightarrow \alpha = \frac{9}{r} \quad (r)$$

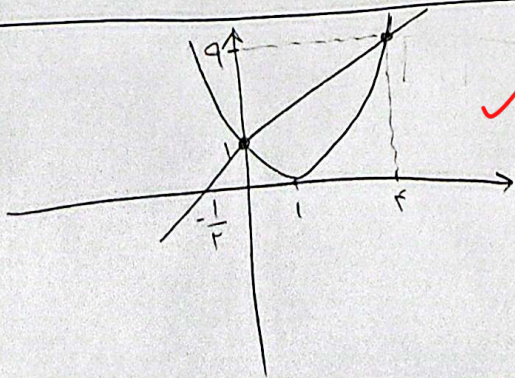
$$\Rightarrow S = \frac{r}{r} + \frac{9}{r} = \frac{14 + 2r}{1r} = \frac{r}{1r} \quad S = -\frac{b}{a} = -\frac{(-1-m)}{1}, m = \frac{r}{1r} \checkmark$$

$$\beta = r \alpha \Rightarrow S = \alpha + r \alpha = r \alpha \Rightarrow S = -\frac{b}{a} = -\frac{(-1)}{1} = r \Rightarrow r \alpha = r \Rightarrow \alpha = 1 \Rightarrow \beta = r$$

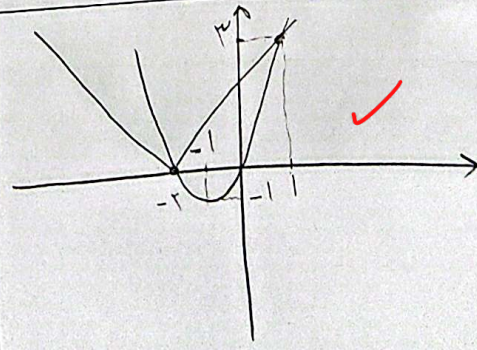
$$\rightarrow p = 1 \times r = r \quad p = \frac{c}{a} = \frac{m}{1}, m = r \checkmark$$

$$p = r \Rightarrow p^T = \alpha^T \beta^T = 1 \Rightarrow \frac{1}{\alpha^T} = \beta^T \Rightarrow \alpha^T + \beta^T = S^T - r^T S p$$

$$\frac{S = V}{p = r} \rightarrow V^T - r(V)(r) = r^T r - r^T r \cdot 1 \checkmark$$



(الف)



$$y_{\max} = \frac{-\Delta}{2a} = \frac{-(5 \cdot r - 4(-1)(-1))}{-2} = \frac{5 \cdot r}{2} = \frac{25 \cdot r}{2} = 42/5 \checkmark$$

$$h(t) \Rightarrow -1 \cdot t^2 + 5 \cdot t \Rightarrow t^2 - 5t \Rightarrow t < 5 \checkmark$$

لنفترض