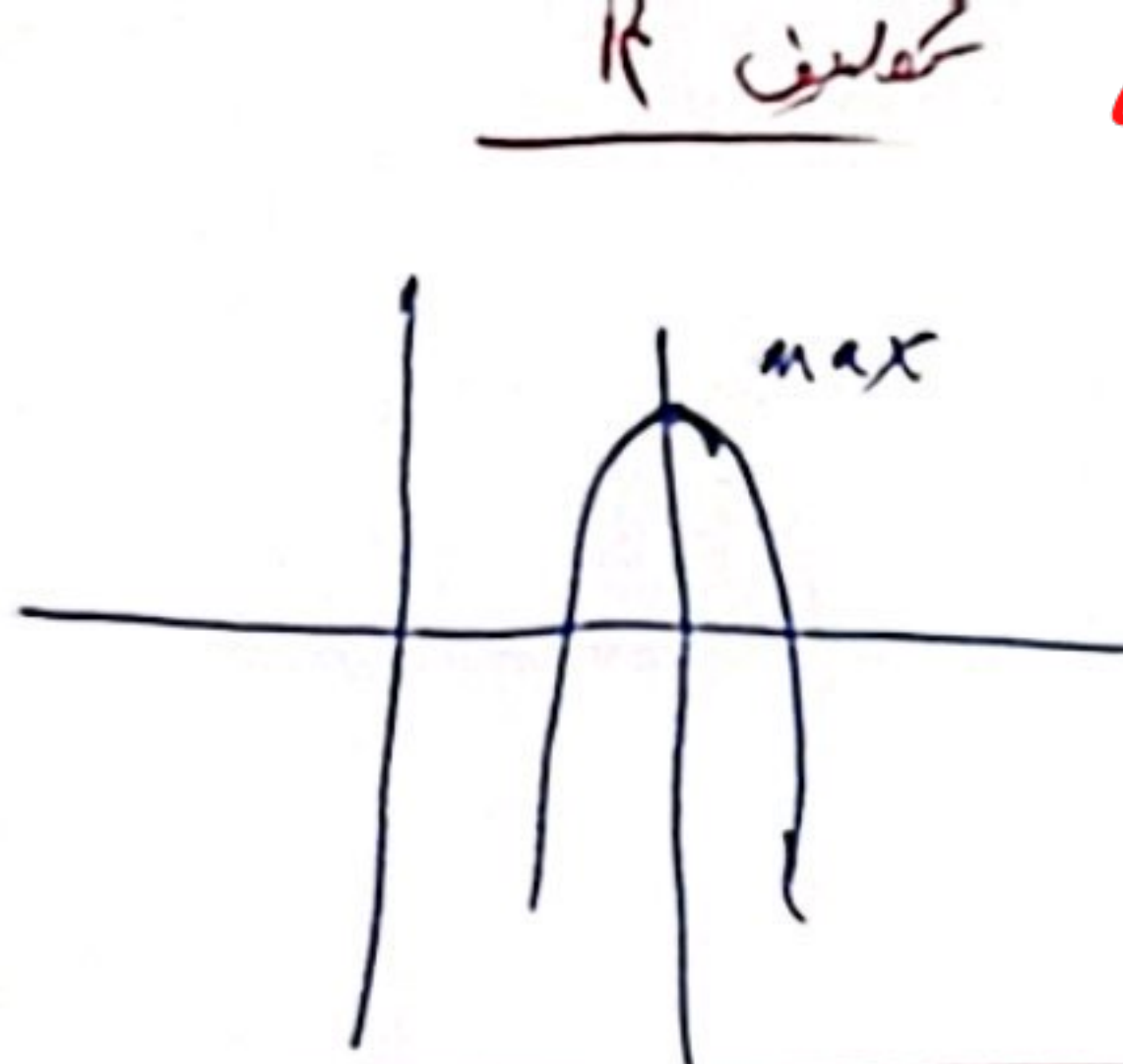




9, 1, 7, 8

$$\frac{-b}{2a} = V \Rightarrow \frac{-b}{-2} = V$$

Max مقدار تابع یعنی y!

$$y_{max} = -\frac{\Delta}{4a} = -\frac{(b^2 + 12)}{-4} = V \rightarrow b = \pm 4$$

ریشه های توانم

$$\Rightarrow x^2 + 2x + 3 = 0$$

$$\Rightarrow x^2 - 2x - 10 = 0$$

$$\Delta < 0$$

$$(x^2 + 3)(x^2 - 5) \Rightarrow x^4 - x^2 < 0$$

$$x \quad s = 2x + 2 \Rightarrow \frac{12}{2} = 4 \Rightarrow 2x + 2 = 4 \Rightarrow 2x = 2 \Rightarrow x = 1$$

$$x + 2 \quad p = x^2 + 2x \Rightarrow \frac{m}{2} = x^2 + 2 \Rightarrow \frac{m}{2} - 2 = x^2 \Rightarrow m = 12$$

$$B = 2a - 2 \quad s = 2a - 2 \Rightarrow \frac{2}{2} = 1 \Rightarrow 2a - 2 = 1$$

$$p = 0 \Rightarrow \frac{m-1}{2} = 0 \Rightarrow m = 1$$

$$\frac{1}{B} \Rightarrow p = 1 = \frac{c}{a} = \frac{m^2 - 2}{-m} = 1 \Rightarrow m^2 - 2 = -m$$

$$s = B^2 - 1 = \frac{b}{a} = \frac{-2}{-m}$$

$$\Delta > 0 \quad (m^2 - 1)m > 0$$

$$a = \frac{c}{p^2} \quad p = \frac{c}{p^2} \times \frac{c}{ap}$$

$$B = \frac{c}{ap}$$

$$\alpha B \times B = 2 \quad \alpha B = 2 \rightarrow B = \frac{2}{\alpha} \quad \alpha = \frac{4}{2}$$

$$S = \frac{4 \times 2}{12} = m$$

8, 9, 10, 11

$$x \quad s = 2x = \frac{2}{1}$$

$$p = 2 = \frac{m}{1}$$

12

$$\alpha\beta = 2 \rightarrow \beta = \frac{2}{\alpha} \rightarrow \beta'' = \frac{1}{\alpha^3}$$

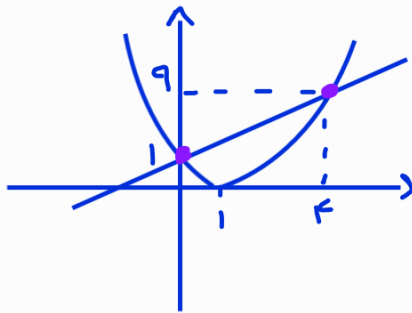
(٨)

$$\text{حواشی سوال: } \alpha'' + \beta'' = S'' - KSp = V'' - 3(V)(2) = 301$$

$$\max_{\text{ارتفاع}} = -\frac{\Delta}{f_0} = -\frac{(2500)}{-40} = 42,5 \text{ m}$$

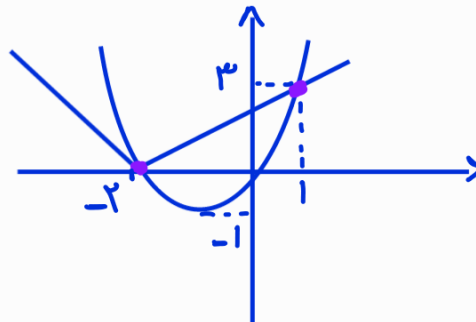
٩

$$-10t^2 + 20t = 0 \rightarrow \begin{cases} t=0 & \text{شروع حرکت} \\ t=2 & \text{برخورد} \end{cases}$$



دو جواب 0 و 4 = x

الف ١٠



دو جواب 2- و 1 = x

ب ١١