

$$-\frac{\Delta}{4a} = v : -\frac{b^2 - 4(-1)(+3)}{-4} = v \quad \begin{cases} b = -4 \\ b = 4 \end{cases}$$

الف) $x^2 = t \quad t^2 + 2t + 3 = 0 \quad \Delta \rightarrow \Delta < 0$ ریشه ندارد

ب) $x^2 = t \quad t^2 - 2t - 15 = 0$ $\begin{cases} t = -3 \Rightarrow x^2 = -3 \\ t = 5 \Rightarrow x^2 = 5 \end{cases} \rightarrow x = \pm\sqrt{5}$ خوب

$S = \alpha + \alpha + 2 = 4 \Rightarrow 2\alpha = 2 \Rightarrow \alpha = 1, \beta = 3$

$P = \alpha \cdot \beta = 3 \Rightarrow \frac{m}{4} = 3 \Rightarrow m = 12$

$$\begin{cases} \alpha + \beta = 2 \\ 2\alpha - \beta = 4 \end{cases}$$

$\alpha = 2 \quad \beta = 0$

$P = \alpha \cdot \beta = 0 = \frac{m-1}{3} \Rightarrow m = 1$

Viana

Subject :

Year:

Month:

Date:

$$\alpha, \frac{1}{\alpha} \Rightarrow p=1 = \frac{m^2-2}{-m} \begin{cases} \rightarrow m=1 \checkmark \\ \rightarrow m=-2 \text{ غلط} \end{cases}$$

سوال ۵:

$$\Delta > 0 : \text{دو ریشه متمایز} \quad 14 - 4(-m)(m^2-2) > 0 \Rightarrow m \in (-2, +\infty)$$

$$m=1$$

$$P = \begin{cases} \alpha \cdot \beta = \mu \\ \alpha \cdot \beta^r = \kappa \end{cases}$$

$$\alpha = \frac{q}{\kappa}$$

$$\beta = \frac{\kappa}{\mu} \quad S = \frac{q}{\kappa} + \frac{\kappa}{\mu} = \frac{\mu \kappa}{\mu \kappa} = m$$

$$\alpha + \mu \alpha = \kappa \alpha = \kappa \Rightarrow \alpha = 1, \beta = \mu$$

$$P = \alpha \cdot \beta = \mu = m$$

$$P = \alpha \cdot \beta = r \Rightarrow \alpha^r \cdot \beta^r = 1 \Rightarrow \frac{1}{\alpha^r} = \frac{\alpha^r \cdot \beta^r}{\alpha^r} = \beta^r$$

$$\Rightarrow \alpha^r + \beta^r = S^r - rSP = (V)^r - r(V)(r) = \mu \cdot 1$$

$$\text{ارتفاع } \max = y_{\max} = -\frac{\Delta}{2a} = -\frac{\kappa \omega_0}{-40} = \boxed{42,5}$$

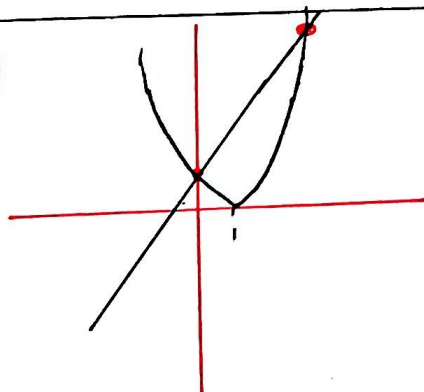
نقطه شوت $\nearrow$ $t=0$ $\nearrow$ $t=5$

ریشه : $-10t^2 + 50t = 0 \quad t(-10t + 50) = 0 \Rightarrow \boxed{t=5}$

الف)

$$y=0$$

$$y=4$$



ب)

$$y=-2$$

$$y=1$$

