

$$\frac{-8}{4a} = \frac{+12+b^2}{4x+1} = V \quad 28 = 12 + b^2 \quad b^2 = 16 \quad b = \pm 4$$

الف) $m^2 = t \quad x^2 + 2x + 2 \rightarrow 0 < 0$ (ریشه حقیقی ندارد)

ب) $(4-m^2) = t \quad x^2 - 2x - 10 = 0 = (t-4)(t+2) \quad t = 4 \text{ و } -2$
 $4-m^2 = 4 \quad m^2 = 0 \quad 4-m^2 = -2 \Rightarrow m = \pm\sqrt{6}$

$a+b=4 \quad a+2=3 \quad 2a+2=4 \quad a=1 \quad b=3 \quad \frac{m}{4} = 2 \times 1 \quad m=12$

$\begin{cases} a+b=2 \\ 2a-b=4 \end{cases} \quad 2 \times a = \frac{m-1}{2} \Rightarrow \frac{m-1=0}{m=1}$
 $a=2 \quad b=0$

$\frac{1}{a} \times a = 1 \Rightarrow p=1 \quad \frac{m^2-2}{-m} = 1 \quad m^2+m-2=0$
 $m=1, -2$
 $m=1 \Rightarrow -m^2+2m=1$
 $m=-2 \Rightarrow 2m^2+2m+2=0$
 (ریشه حقیقی ندارد) $m=1$ و $m=-2$ ✓

$$aB = \frac{1}{\sqrt{1-\beta^2}} \quad aB \times B = \frac{1}{\sqrt{1-\beta^2}} \quad B = \frac{1}{\sqrt{1-\beta^2}} \Rightarrow \frac{1}{\sqrt{1-\beta^2}} - \frac{1}{\sqrt{1-\beta^2}} + \beta = 0$$

$$m = \frac{1}{\sqrt{1-\beta^2}} \quad \beta > 0$$

$$aB = \frac{1}{\sqrt{1-\beta^2}} \quad a + B = \frac{1}{\sqrt{1-\beta^2}} \Rightarrow a + \frac{1}{\sqrt{1-\beta^2}} = \frac{1}{\sqrt{1-\beta^2}} \quad a = 1 \quad B = \frac{1}{\sqrt{1-\beta^2}} \quad m = \frac{1}{\sqrt{1-\beta^2}}$$

$$aB = \frac{1}{\sqrt{1-\beta^2}} \quad B = \frac{1}{\sqrt{1-\beta^2}} \quad B = \frac{1}{\sqrt{1-\beta^2}} \Rightarrow a + \frac{1}{\sqrt{1-\beta^2}} = a + B = \frac{1}{\sqrt{1-\beta^2}} \quad s = \frac{1}{\sqrt{1-\beta^2}}$$

$$= \frac{1}{\sqrt{1-\beta^2}} \times \frac{1}{\sqrt{1-\beta^2}} - \frac{1}{\sqrt{1-\beta^2}} \times \frac{1}{\sqrt{1-\beta^2}} = \frac{1}{\sqrt{1-\beta^2}}$$

$$\frac{-\Delta}{\Delta a} = \frac{+\omega_0}{+10 \times \pi} = \frac{\omega \times \omega \times 100}{10 \times \pi} = \frac{100}{\pi} = 4 \pi \cdot \omega \approx \text{Max } h$$

$$-10 \pi t + \omega_0 t = 0 = +10 \pi t (t - \omega) \Rightarrow t = \omega$$

