

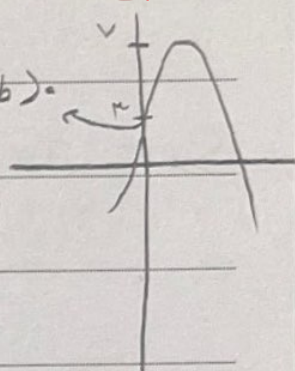
زهرا صیانی / تلف شماره ۱۴ / ۱۷, ۷۵ / یزدی و هم نشانی

$$-\frac{\Delta}{r_a} = \frac{r_a c - b^2}{r_a} = \frac{-12 - b^2}{-4} = 7 \quad b) \cdot$$

$$-12 - b^2 = -28 \rightarrow b^2 = 16 \rightarrow b = \pm 4$$

$$b = 4$$

تق
تق



۲- $t^2 + 2t + 3 \rightarrow \Delta < 0 \rightarrow$ ریشه ندارد (الف)

$$n^2 = t$$

صفر جمع ندارد!

۳- $t^2 - 2t - 15 = 0 \rightarrow (t-5)(t+3) = 0$
 $(n^2 - n) = t$

$$n^2 - n = 5 \rightarrow n^2 = 6 \quad n^2 - n = -3 \rightarrow n^2 = 4$$

تق

$$n = \pm \sqrt{4}$$

Arman

$$K_n^r - 14m + m = 0$$

$$\alpha$$

$$S = r\alpha + r$$

-K

$$\alpha + r$$

$$P = \alpha^r + r\alpha$$

(1, 1, 0)

$$S = K = r\alpha + r$$

$$\alpha = 1$$

$$\rightarrow P = 1 + r = K = \frac{m}{r}$$

$$\alpha + r = K$$

$$m = 1r$$

$$K_n^r - 14m + r = 0 \quad \Delta > 0 \quad \checkmark$$

$$K_n^r - 9m + m - 1 = 0$$

$$S = r = \alpha + \beta$$

-K

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

(1, 1, 0)

$$K_n^r - 9m + m - 1 = 0 \rightarrow K(r) - 9(r) + m - 1 = 0$$

$$m - 1 = 0 \rightarrow m = 1$$

$$K_n^r - 9m = 0 \quad \Delta > 0 \quad \checkmark$$

$$-m^r + r_m + m^r - r = 0 \rightarrow \alpha \quad -\Delta$$

$$\hookrightarrow \frac{1}{\alpha} \rightarrow \beta = 1$$

$$\Delta > 0 \rightarrow b^r(rac) > 0 \rightarrow 14 > r(-m)(m^r - r) \quad (9)$$

$$r > -m^r + r_m \rightarrow m^r - r_m + r > 0$$

$$\beta = 1 \rightarrow \frac{m^r - r}{-m} = 1 \rightarrow m^r + m - r = 0$$

$$(m+r)(m-1) = 0$$

$\begin{cases} m=1 \\ m=-r \end{cases}$

GGG

$$m=1 \rightarrow (1)^r - r(1) + r = 1 + r - r > 0 \rightarrow \text{GG}$$

$$m=-r \rightarrow (-r)^r - r(-r) + r = -1 + r + r = 0 \rightarrow \text{GGG}$$

$$x^r - mx + r = 0 \rightarrow \alpha\beta = p = r \quad -9$$

$$\alpha\beta^r = r \rightarrow \beta \left(\frac{\alpha}{\beta} \right) = r \rightarrow \beta = \frac{r}{\frac{\alpha}{\beta}}$$

$$\alpha = \frac{\frac{r}{\frac{1}{\frac{r}{\alpha}}}}{\frac{r}{\alpha}} = \frac{9}{r}$$

1,10

$$S = m = \frac{9}{r} + \frac{r}{r} = \frac{r^2 + 9}{1r} = \frac{r^2}{1r} = m$$

$$x^r - \frac{r^2}{1r} + r = 0 \checkmark$$

Arman

$$x^r - r_n + m = 0 \rightarrow \alpha \rightarrow S = r\alpha$$

$$\downarrow r_\alpha \quad p = r_\alpha^r = m$$

-V

(1, 1, 0)

$$S = r_\alpha = r\alpha \rightarrow \alpha = 1 \rightarrow p = r(1) = \boxed{r = m}$$

$$x^r - r_n + r = 0 \rightarrow \Delta y = 0 \checkmark$$

$$x^r - v_n + r = 0 \rightarrow \alpha^r = v\alpha^r - r\alpha \rightarrow \alpha\beta = r \quad -1$$

$$\alpha^r + \frac{r}{\alpha} = ? \rightarrow \boxed{S = v} \quad \beta = \frac{r}{\alpha} \quad (3)$$

$$\underbrace{\left(\alpha + \frac{r}{\alpha}\right)}_{\beta} \left(\underbrace{\alpha^r + \frac{r}{\alpha^r}}_{\beta^r} - r\right) = v \left(r^2 - \frac{r^2}{\alpha^2}\right) = v(r^2) \Rightarrow \boxed{r=0}$$

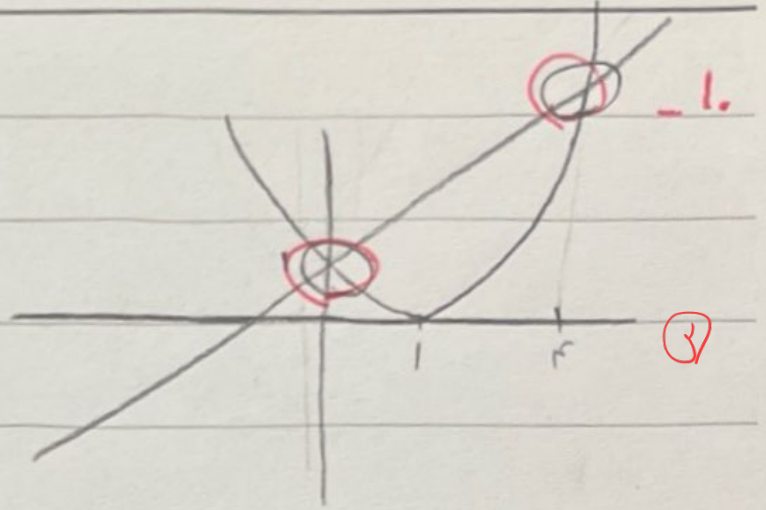
$$h = -1_0 t^r + a_0 t \quad -1_0 t(t-a) = 0 \quad \left. \begin{array}{l} t=0 \\ t=a \end{array} \right\} \begin{array}{l} t=0 \\ t=a \end{array} \checkmark \quad -9$$

$$t_{max} = \frac{-a_0}{-r_0} = \boxed{\frac{a}{r}} \quad (1)$$

$$h_{max} = -r_0 \left(\frac{r_0}{r}\right) + a_0 \left(\frac{a}{r}\right) = -\cancel{r_0}^2 + \frac{a^2}{r} = \boxed{\frac{a^2}{r}}$$

الف) $(n-1)^2 = r_m + 1$

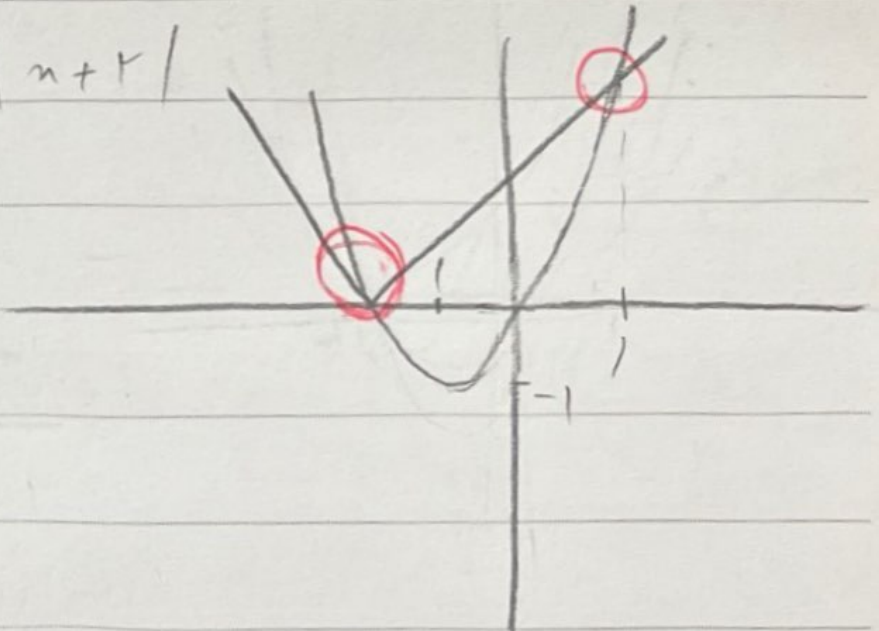
$n^2 - r_m + 1$



$x=0$

$x=2$

ب) $n^2 + r_m = |n+2|$



$x=1$

$x=1$