



$$n^r - r_{n+m} = 0 \quad \alpha \quad r_{\alpha}$$

$$S = r_{\alpha} = r \quad \alpha = 1$$

$$p = m = r_{\alpha}^r = r \times 1 = r \rightarrow \boxed{m = r}$$

$$\Delta > 0 \rightarrow n^r - r_{n+r} \checkmark$$

$$n^r - v_{n+r} = 0$$

$$\alpha^r + r = v_{\alpha}$$

$$\alpha^r + \frac{1}{\alpha^r} = ? \quad \left(\alpha + \frac{r}{\alpha}\right)^r - r(r) \left(\alpha + \frac{r}{\alpha}\right)$$

$$\left(\frac{\alpha^r + r}{\alpha}\right)^r - 4 \left(\frac{\alpha^r + r}{\alpha}\right) \rightarrow \left(\frac{v_{\alpha}}{\alpha}\right)^r - 4 \left(\frac{v_{\alpha}}{\alpha}\right) =$$

$$v^r - 4rv = \boxed{r_{01}}$$

$$h(t) = -1.0t^r + \omega t$$

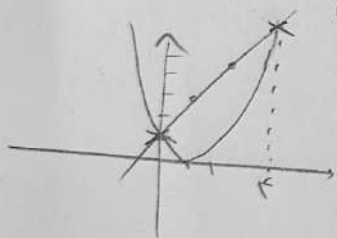
$$h_{max} = \frac{-\Delta}{2\varepsilon_{\alpha}} = \frac{1 - (\omega_0^r - f(-1.0)(0))}{+2\varepsilon_0} = \frac{r_{\alpha}}{2\varepsilon_0} = \boxed{4r, \omega}$$

$$0 = -1.0t^r + \omega t = t(-t + \omega) = 0$$

$\downarrow$        $\downarrow$   
 $t_0$        $\omega$

$\leftarrow$  زمان پرتاب      زمان رسیدن به زمین

الف)  $(n-1)^r = r_{n+1}$



$$\begin{array}{c|ccc} n & 0 & 1 & 2 \\ \hline 0 & 1 & 0 & 1 \\ \hline 1 & 0 & 1 & 0 \\ \hline 2 & 1 & 0 & 1 \end{array}$$

در دستگاه 1  
بهمین محور می‌اندازد

ب)  $n^r + r_{n+1} = (n+r)^r$



$$\begin{array}{c|ccc} n & 1 & 2 & 3 \\ \hline 1 & 1 & 0 & 1 \\ \hline 2 & 0 & 1 & 0 \\ \hline 3 & 1 & 0 & 1 \end{array}$$

در دستگاه 2  
همین محور