

$$P a^2(n-1) a^2 a^2 = 0 \Rightarrow a^2 (P a^2 n - P) = 0 \Rightarrow n, P, a$$

$$f(x) = \frac{1 + \tanh b}{\sqrt{a}} \Rightarrow \frac{1}{\sqrt{a}} \frac{1 + \tanh b}{\sqrt{a}} \Rightarrow 1 + \tanh b = 1 \Rightarrow b = \operatorname{arctanh} \left(\frac{1}{\sqrt{a}} \right)$$

$$\text{نوعی تابع } \rightarrow n=1 \Rightarrow n^2 a n^2 b = 0 \Rightarrow (a+b=0 \Rightarrow a=b=0) \quad 1, 2$$

$$\delta n^2 - a n^2 b = 0 \xrightarrow{n=1} \delta - a + b = 0 \Rightarrow a - b = 0 \Rightarrow a = b \Rightarrow \delta - 1 = \left\{ \frac{-1 \pm \sqrt{1}}{2} \right\} = -1$$

$$1 \rightarrow \tan \frac{\pi}{2} = \lim_{n \rightarrow 1} \frac{(n^2 n - 1)}{a(n-1)} \Rightarrow \lim_{n \rightarrow 1} \frac{(n^2 - 1)}{(1-n)a} \Rightarrow \frac{1}{-a} = -1 \Rightarrow a = 1$$

$$0 \rightarrow b(\delta - [-\delta]) = \lim_{n \rightarrow \delta} \frac{(n^2 n - 1)}{a(n-1)} \Rightarrow \frac{1}{-1} = -1 \Rightarrow b = \frac{1}{-1} = -1 \Rightarrow a+b = 0$$

$$f(n) = a([n] + 1) + b([n] + [a]) = (a+b)[n] + (a+b[a])$$

$$\Rightarrow a+b=0 \Rightarrow a=-b \Rightarrow f(n) = -a[a] = \frac{a[a]}{-a[a]} = -1$$

$$[n(n-1)] \Rightarrow n=0, n=a, b=0 \Rightarrow y = 1 + a \frac{a}{-1a} = -\frac{1}{f} \quad (3)$$

$$n \rightarrow \frac{P_{nom}}{-1} \Rightarrow -P_{nom} = f(a) \Rightarrow f(a) = \frac{f(a) P_{nom} a h}{-a} = 0 \quad (4)$$

$$\Rightarrow f(a) P_{nom} a h = 0 \Rightarrow P_{nom} a h = 0 \Rightarrow a = 1$$

$$a-1 = 1 - \frac{1}{a} \Rightarrow a = 1, \frac{1}{a} \Rightarrow b = \frac{1}{a}$$

(5)

$$n^2 = (n-1)(n-1) + (n-1)(n) + (n-1)(n) + (n-1)(n) \quad (1)$$

$$\Rightarrow f(1) = \lim_{n \rightarrow 1} f(n) \Rightarrow \frac{m}{m^2} = \frac{1+m}{m^2} \Rightarrow m^2 = 1 \Rightarrow m = \pm 1$$

$$\Rightarrow \frac{1}{4} \Rightarrow \frac{1}{4} = \frac{1}{4}$$