

$$a^T + fa = \gamma_a + a + \gamma \rightarrow a^T + a - \gamma \leq 0$$

۲- درصد نابع است که $\alpha = a$ و فقط یک n دارا باشد:

$$n^r - nx; n \geq 1 \Rightarrow 1 + f(1) = \boxed{0}$$

$$|x+1| \geq r \rightarrow x+1 \geq r \Rightarrow x \geq r-1$$
$$|x+1| \geq r \rightarrow x+1 \leq -r \Rightarrow x \leq -r-1$$

$$\begin{aligned} a + p(-r) &\leq a - b \\ p(-r) + b &\leq a - b \end{aligned} \quad \left. \begin{array}{l} \text{add} \\ \text{sub} \end{array} \right\} \Rightarrow \boxed{a + b \leq pr}$$

$$s_m - a \geq 0 \rightarrow a \leq s_m \rightarrow \frac{a}{r} \leq \frac{s_m}{r}$$

$$\frac{a}{r} \leq x \leq \frac{b}{r} \Rightarrow a \leq r \leq \frac{b}{x}$$

$$a \leq y \quad b \leq y$$

$$\frac{b}{a} = \frac{c}{r} = \left[\frac{1}{5} \right]$$

الف) $\frac{n+1}{|n+1|} > 0$

-1	0	+	+
-	0	+	+

$$\frac{y - \hat{y}}{x^p + y_{n+1} + f} \gg \cdot \quad \begin{array}{c|c} & y \\ \hline + & 0 \\ - & \end{array}$$

$$[-1, 3) \cup (3, +\infty) \cap (-\infty, 4] \rightarrow [-1, 4] - \{3\}$$

۱- $[x]_0 \rightarrow x \in [0, +\infty)$ $\xrightarrow{\quad} \emptyset$ تابع تهی

$$\text{الف) } \frac{(n-1)(n+1)}{(n-1)(n+1)(n+1)} \geq 0$$

$$\begin{array}{c|cccc} & -1 & -1 & 1 & 1 & n \\ \hline & + & - & - & + & + \end{array}$$

$$\Rightarrow (-\infty, -1) \cup (1, 1) \cup (1, \infty)$$

$$\Rightarrow \frac{(n-1)(n-1)(n+1)}{(n+1)(n+1)(n-1)} \geq 0$$

$$\begin{array}{c|cccc} & -1 & -1 & -1 & 1 & 1 \\ \hline & + & - & + & - & + \end{array}$$

$$\Rightarrow (-\infty, -1) \cup [-1, -1] \cup [1, 1] \cup [1, \infty)$$

$$\text{ب) } [n] - 1 \geq 0 \rightarrow [n] \geq 1 \rightarrow n \in (-\infty, 1)$$

$$\Rightarrow ([n] - 1)([n] + 1)$$

$$\Rightarrow (-\infty, -1) \cup [1, +\infty)$$

$$R = [-1, 1)$$

$$R = [-1, 0)$$

مربع - 1 = 0

$$\text{ج) } \cot x \rightarrow k\pi \text{ مخرج صفر}$$

$$\tan x \rightarrow k\pi + \frac{\pi}{2} \text{ مخرج صفر}$$

$$\tan x + 1 \neq 0 \rightarrow k\pi + \frac{\pi}{2} \neq \tan x$$

$$\Rightarrow R = \left\{ k\pi, k\pi + \frac{\pi}{2}, k\pi + \frac{\pi}{2} \right\}$$

$$\text{د) } 1 - \sin^2 x \geq 0 \rightarrow 1 \geq \sin^2 x \rightarrow 1 \geq \sin x \rightarrow 1 \geq |\sin x| \Rightarrow \frac{1}{2} \geq \sin x$$

$$\Rightarrow R = \left[k\pi - \frac{\pi}{6}, k\pi + \frac{\pi}{6} \right] \cup \left[k\pi + \frac{5\pi}{6}, k\pi + \frac{7\pi}{6} \right]$$

$$\text{هـ) } 1 - \log_{\frac{1}{2}}^{n-1} \geq 0 \Rightarrow n-1 \geq 0 \Rightarrow n \geq 1$$

$$\log_{\frac{1}{2}}^{n-1} \rightarrow n \leq \frac{1}{2} \rightarrow n \geq \frac{1}{2} \Rightarrow \left(\frac{1}{2}, +\infty \right)$$

$$\text{و) } n(n-1) \geq 0 \rightarrow \begin{array}{c|cc} & 0 & 1 \\ \hline & + & - \end{array} \Rightarrow (-\infty, 0] \cup [1, +\infty)$$

$$n^2 - 1 \geq 0 \rightarrow n(n-1) \geq 0$$

$$\begin{array}{c|cc} & 0 & 1 \\ \hline & + & - \end{array}$$

$$n^2 - 1 \neq 0 \Rightarrow n \neq 0, -1$$

$$\Rightarrow (-\infty, 0] \cup [1, +\infty) - \{0, -1\}$$

$$\text{ز) } \frac{n^2 - n^2}{-1} \geq 0 \Rightarrow n^2 - n^2 \geq 0 \Rightarrow 0 \geq 0 \Rightarrow n^2 - n^2 \geq 0$$

$$\begin{array}{c|cc} & 1 & 1 \\ \hline & + & - \end{array} \Rightarrow [1, 1]$$

$$\text{ح) } \frac{n^2 + a}{n^2 + b} \in W \Rightarrow n^2 + a \leq n^2 + b \Rightarrow a \leq b$$

$$\Rightarrow n^2 - n^2 \leq b - a$$

$$n^2 - n^2 \leq b - a$$

$$n \leq \frac{b-a}{n^2 - n^2} \Rightarrow \left\{ n/n \leq \frac{b-a}{n^2 - n^2} \right\}$$