

$$|\lambda^m + (m-n)\lambda^n + a^m| \leq \lambda^m (m-n) + a^m \quad \text{لما} \quad \text{لما} \quad m-n$$

$$|\lambda^m + (m+n)\lambda^n + \frac{m}{p}| \leq \lambda^m + \frac{m}{p} \quad \text{لما} \quad \text{لما} \quad \frac{\lambda^m (1-\lambda^n)}{p} \quad \text{لما}$$

$$\sqrt{\frac{m}{p} (1-\lambda^n)} \quad \text{لما} \quad \sqrt{\frac{m}{p}} \quad \text{لما} \quad \lambda + mb \quad \text{لما} \quad \lambda > \frac{1}{p} \quad \text{لما} \quad \sqrt{\frac{m}{p}} \quad \text{لما} \quad \lambda + mb$$

$$\tan b \frac{\sqrt{m}}{p} \rightarrow b < \frac{\pi}{4}$$

$$\frac{\lambda^m + a^m + b}{n-1} \xrightarrow{n=1} 1 + a + b \leq 0 \rightarrow a + b \leq -1$$

$$\lambda^m - a^m + b \xrightarrow{n=1} 0 - a + b \leq 0 \rightarrow -a + b \leq 0$$

$$\left[\frac{b - \lambda a}{p} \right] \geq \left[\frac{-a - \lambda}{p} \right], \left[\frac{v}{p} \right] \geq -1$$

$$f(n) = \begin{cases} \tan((m+1)\pi) & i \leq x \\ \frac{1}{\lambda^m + m - 1} & 1 < x < 0 \\ \frac{a(1-x)}{a(1-x)} & 0 < x < 1 \\ b(a - \lfloor x \rfloor) & x \geq 1 \end{cases}$$

$$x \geq 1 \rightarrow \tan \frac{m\pi}{p} \leq -1 \rightarrow -1 \leq \frac{m}{p} \rightarrow a \geq \frac{m}{p}$$

$$x < 0 \rightarrow \frac{-v}{-p} \leq b(0 - \lfloor x \rfloor) \rightarrow \frac{-v}{p}, 1 \leq b \rightarrow b \leq \frac{v}{p}$$

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

~~$$a[n] + b[n] + b$$~~

~~$$a[n] + b[n] + b[n] + b[n] \rightarrow a[n] + b[n] = 0 \rightarrow a[n] = -b$$~~

$$f(n) = a[n] + a[n] + a[n] - a[n] - a[n] - a[n]$$

$$a[n] = -1$$

$$-a[n] =$$

$$f(n) = b[n-2-dn] - 2a \rightarrow b[n-2-dn] = 0 \rightarrow b = 0$$

$$f(n) = -2a \rightarrow \frac{a}{-2a} = -\frac{1}{2}$$

$$f(n) = \begin{cases} \frac{a^p + m n + n}{a - n} & n \neq a \\ p & n = a \end{cases}$$

$$\frac{(a-a)(a-pa)}{(a-a)} = pa - p \rightarrow (a-pa) = p - a$$

$$(a-a)(a-pa) = a^p - pa^p + pa^p \rightarrow a^p + m n + n \rightarrow m = +a, m = -a \rightarrow n = pa^p \rightarrow n = 1$$

$$\begin{array}{c} 1-pa^p \\ \nearrow \\ b \sin(\frac{pa}{p}) \\ \nearrow \\ a-1 \end{array} \rightarrow 1-pa^p + a - pa^p \rightarrow -1 \text{ (True)} \quad \frac{n}{p} \checkmark$$

$$-\frac{1}{p} \rightarrow b \sin(\frac{pa}{p}) = -\frac{1}{p} \rightarrow b = -\frac{1}{p} \rightarrow b = \frac{1}{p}$$

$$\frac{a}{b} = \frac{\frac{1}{p}}{\frac{1}{p}} = \frac{p}{p}$$

$$\frac{(x-1)(x+m+1)}{(m-1)(m|x-1|+1)} \xrightarrow{x+m+1} \frac{x+1}{m|x-1|} \xrightarrow{x+1} \frac{m+p}{m|x-1|}$$

$$\frac{m+p}{m-1} \xrightarrow{m \rightarrow \infty} \frac{m}{m-1} \xrightarrow{m-1 \rightarrow 0} -m^p - \epsilon_m \xrightarrow{m \rightarrow \infty} -m^p + \epsilon_m \xrightarrow{m \rightarrow \infty} -m^p - \epsilon_m \xrightarrow{m \rightarrow \infty} -m^p$$

$$\xrightarrow{m \rightarrow 1} \lim_{x \rightarrow 1} f(x) = \frac{1-1+1}{(-1+0+1)} = 1$$

$$\lim_{x \rightarrow 1} f(x) = \frac{\frac{1}{2} + \frac{1}{2} + 1}{\frac{1}{2} + \frac{1}{2} + 1} = \frac{p}{q}$$

$$f(x) = \frac{\sqrt{p}|x-1|}{|x^m + (m-p)x^p + a^p|} \xrightarrow{|x-1| \rightarrow 0} 0$$

$$R = \{a\} \xrightarrow{a} \sqrt{p}|a^p + a^p| = 0$$

$$\lim_{x \rightarrow a} f(x) \xrightarrow{x \rightarrow a} a(a+1) \xrightarrow{a \rightarrow 0} 0 \quad \text{وہی} \\ \xrightarrow{a \rightarrow -1} 1 - 1 + (m-p)1 + 1 = 0 \\ \xrightarrow{a \rightarrow \infty} m^p$$

$$f(x) = \frac{\sqrt{p}|x-1|}{|x^m + (m-p)x^p + a^p|} \xrightarrow{|x-1| \rightarrow 0} 0$$

$$\xrightarrow{|x-1|} \frac{|x-1|}{|x^m - x^p - x^p + 1|} \xrightarrow{|x-1| \rightarrow 0} \frac{1}{|1+1+1|} = \frac{1}{m}$$

$$x \rightarrow 0 \xrightarrow{\frac{1}{x} \rightarrow \frac{p-1}{p}} \frac{p-1}{p} = p^p - a \rightarrow p^p + p^p - p^p - p^p = 0$$

$$p \rightarrow \sqrt{p+1} \rightarrow p$$

$$\lim_{x \rightarrow 0} f(x) \xrightarrow{\frac{1}{x} \rightarrow \frac{p+1}{p}} \frac{\frac{p}{p+1}}{\frac{0}{p+1}} = \frac{p}{0} = -\infty$$

$$\lim_{x \rightarrow -p} f(x) \xrightarrow{\frac{p+1}{p} \rightarrow \frac{p+1}{p-1}} \frac{4}{p-1} = \frac{4}{-1} = -4$$