

$$\lim_{n \rightarrow \infty} \frac{n^p - \infty}{n^p + an + b} = -\infty \rightarrow \frac{n^p - \infty}{n^p + an + b} \rightarrow (-1) < 0$$

فیبیا قوی دوارده بیست

$$n^p + an + b > 0 \rightarrow (n+1)^p = n^p + pn + p$$

$$a + b = 0$$

صورت $n=1$ و مقامات بیست بیست معزم بوده و صورت در درمارن هم بیست بیست بیست (زوج لرد)

$$\lim_{n \rightarrow \sqrt[3]{14}} \frac{n}{n^p + an + b} = 0$$

$$(n - \sqrt[3]{14})^p = n^p - p\sqrt[3]{14}n + \sqrt[3]{14} \rightarrow a = -p\sqrt[3]{14}$$

$$b = \sqrt[3]{14}$$

$$\left[\frac{b}{a} \right] = \left[-\frac{\sqrt[3]{14}}{\sqrt[3]{14}p} \right] = \left[-\frac{\sqrt[3]{14}}{p} \right] = -1$$

$$0 < \sqrt[3]{14} < 1 \rightarrow 0 < \sqrt[3]{14} < 1$$

$$\lim_{n \rightarrow (\frac{1}{\sqrt{p}})^+} \frac{[-n] + a}{|\sqrt[p]{p}n + a| + a} = -\infty$$

$$n) \sqrt[p]{p} \rightarrow -n < -\sqrt[p]{p} \rightarrow [-n] = -1$$

$$\lim_{n \rightarrow \frac{1}{\sqrt{p}}^+} \frac{a-1}{|\sqrt[p]{p}n + a| + a} =$$

$$\Rightarrow \sqrt[p]{p}n + a > 0 \rightarrow \lim_{n \rightarrow \frac{1}{\sqrt{p}}^+} \frac{a-1}{\sqrt[p]{p}n + a} \rightarrow \sqrt[p]{p} \times \frac{1}{\sqrt{p}} + a = 0 \rightarrow a = -\frac{1}{p}$$

$$n) \frac{1}{\sqrt{p}} \rightarrow \sqrt[p]{p}n < \frac{1}{p} \rightarrow \frac{-\frac{1}{p}}{\sqrt[p]{p}n - \frac{1}{p}} = -\infty$$

$$\rightarrow a = -\frac{1}{p} \rightarrow [a] = -1$$

$$n) -\frac{1}{n} \rightarrow \frac{1}{n} \leftarrow -n \rightarrow \frac{1}{n^2} > n \rightarrow -\frac{1}{n^2} < -n$$

$$\left[-\frac{1}{n^2} \right] = -4$$

$$\frac{1}{n^2} > 1n$$

$$\left[\frac{1}{n^2} \right] = 1n$$

$$\lim_{n \rightarrow +\infty} \frac{14n + 9}{n^2 + n + 1n} = \frac{1}{0^+} = +\infty$$

2a

$$\frac{1}{n+p}$$

$$n \rightarrow p \rightarrow \lambda^p > 1 \rightarrow [\lambda^p] = 1$$

$$\frac{\sqrt{n+p}}{n}$$

$$\lim_{n \rightarrow p} \frac{\lambda^p - 1}{\lambda^p - 1} \stackrel{\text{HOP}}{=} \lim_{n \rightarrow p} \frac{p}{\lambda^p} = \frac{p}{1^p} = \frac{1}{p}$$

-10

0

$k > 0$

$k > -1$

$= -\infty$

$$\lim_{n \rightarrow p} \frac{\lambda^p + 10n + 14}{1p + 4\sqrt[4]{n}} = \frac{(n+p)(n+1)}{4(\sqrt[4]{n} + p)}$$

$$= \frac{(n+p)(\sqrt[4]{n} + p)(\sqrt[4]{n^p} - p\sqrt[4]{n} + k)}{4(\sqrt[4]{n} + p)}$$

$$= \frac{(n+p)(\sqrt[4]{n^p} - p\sqrt[4]{n} + k)}{4} = -\frac{4 \times 1p}{4} = -1p$$

10
5

$$\lim_{n \rightarrow 0^-} \sqrt{p + pn} - \sqrt{p - n}$$

$$n \rightarrow 0^- \quad \sqrt{1 - \cos \lambda} \quad 1 - (1 - \frac{p}{p}) = \frac{p}{p}$$

$$\sqrt{p(1 + \frac{p}{p}n)} = \sqrt{p} \sqrt{1 + \frac{p}{p}n} = \sqrt{p} \times (1 + \frac{p}{p}n)$$

$$\sqrt{p - n} = \sqrt{p(1 - \frac{n}{p})} = \sqrt{p} \sqrt{1 - \frac{n}{p}} = \sqrt{p} \times (1 - \frac{n}{p})$$

$$n \rightarrow 0 \rightarrow \sqrt{p} (1 + \frac{p}{p}n - 1 + \frac{1}{p}n) = \sqrt{p} n$$

$$\sqrt{\frac{\lambda^p}{p}} = \frac{|\lambda|}{\sqrt{p}} \quad n \rightarrow 0 \quad \frac{-n}{\sqrt{p}} \quad \left. \begin{array}{l} \sqrt{p} \times \frac{\sqrt{p}}{-n} = (-p) \end{array} \right\}$$

$$\cos(\sqrt{a} \pi) = 1 - \frac{a \pi^2}{\mu}$$

-1

$$\lim_{n \rightarrow 0} \frac{k+1 - \frac{a \pi^2}{\mu}}{\frac{\mu}{k \pi^2}}$$

→

$$\stackrel{\text{Hop}}{=} \frac{-a \pi^2}{\mu k \pi^2} = \frac{-a}{\mu k} = \mu$$

$$a = -4k$$

$$\frac{a}{k} = -4$$

-4

$$\text{Hore} \rightarrow \frac{\mu}{\mu \sqrt{n-\mu a}} + \frac{\mu}{\mu \sqrt{n}}$$

$$\lim_{n \rightarrow (-1)}$$

$$\frac{\mu n}{\mu \sqrt{n-\mu a} \sqrt{n+\mu a}}$$

$$n \rightarrow (-1)$$

$$\left(\frac{1}{\sqrt{n-\mu a}} + \frac{\mu}{\mu \sqrt{n}} \right) \left(\frac{\sqrt{n-\mu a} \sqrt{n+\mu a}}{n} \right)$$

$$= \frac{\sqrt{n+\mu a}}{n} + \frac{\mu \sqrt{n-\mu a} \sqrt{n+\mu a}}{\mu n \sqrt{n}}$$

$$= \left(\frac{\sqrt{4a}}{\mu a} \right)$$

$$n \rightarrow -1^+ \rightarrow \lim_{\substack{[n] = -1 \\ \frac{n^2-1}{0^-}}} \frac{1+k}{n^2-1} = -\infty$$

-10

$$n \rightarrow -1^- \rightarrow \lim_{\substack{[n] = -1 \\ n \rightarrow -1^+}} \frac{1+k}{n^2-1} = -\infty$$

$$1+\mu k < 0 \rightarrow k < -\frac{1}{\mu} \quad \textcircled{P}$$

$$1+\mu k > 0 \rightarrow -1 < k < -\frac{1}{\mu}$$

$$= (n+)$$

$$-\pi < k\pi < -\frac{\pi}{\mu} \rightarrow$$

$$\rightarrow \cos k\pi < 0$$

$$\lim_{n \rightarrow \infty} \sqrt{\mu + \dots}$$