

$$r \left[\frac{r-x}{r} \right] + a \left[\frac{n+r}{r} \right]$$

$$r+0=r$$

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$$\rightarrow -r^+ \quad x > -r$$

$$r-a=r \quad a=r$$

$$\rightarrow -r^- \quad r+(-a)$$

$$\left[\frac{r}{r} \right] = 0$$

$$\lim [r \sin x - 1] \quad [1-1] = -1$$

$$x \rightarrow \left(\frac{\pi}{9} \right)^- \quad \frac{1}{r}^-$$



$$\lim [1x^n - n] = \left[-1 + \frac{1}{r} \right] = \left[-\frac{1}{r} \right] = -1$$

$$n \rightarrow -\frac{1}{r}$$

$$\lim_{n \rightarrow \left(\frac{1}{r} \right)^-} \frac{\log n - a + \left[\frac{r}{nr} \right]}{14n - \left[-\frac{r}{nr} \right]} = \frac{\log n - a + 11}{14n - 11} = \frac{1 \cdot x + 9}{14n + 11} \quad \frac{-a + 4}{-1 + 11} = \frac{1}{10} = -\infty$$

$$n < -\frac{1}{r} \quad nr > \frac{1}{r}$$

$$nr > \frac{1}{r} \quad \frac{1}{nr} < r \quad -\frac{1}{nr} < -r \quad -\frac{r}{nr} > -1$$

$$\lim_{n \rightarrow +\infty} \frac{\sin^r \pi x}{[x] + \cos \pi n} = \frac{1 - \cos^r \pi n}{1 + \cos \pi n} = \frac{(1 - \cos)(1 - \cos^r)}{(1 + \cos)}$$



$$1 - \cos^r \pi n = (r)$$

$$\lim_{n \rightarrow -1} \frac{\sqrt{r^2 n + r} - \sqrt{r^2 n + r}}{1 + \sqrt[3]{n}} \xrightarrow{\text{hop}} \frac{\frac{r}{\sqrt{r^2 n + r}} - \frac{r}{\sqrt{r^2 n + r}}}{\frac{1}{\sqrt[3]{n^3}}} = \frac{1 - \frac{r}{r}}{\frac{1}{\sqrt[3]{n^3}}} = \frac{0}{\frac{1}{\sqrt[3]{n^3}}} = 0$$

$$\lim_{n \rightarrow 1} \frac{r^2 n - \sqrt{r^2 n + 1}}{r^2 n - \sqrt{r^2 n + 1}} \xrightarrow{\text{hop}} \frac{r - \frac{1}{r}}{r - \frac{1}{r}} = \frac{r - \frac{1}{r}}{r - \frac{1}{r}} = 1$$

$$\lim_{n \rightarrow \infty} \frac{a + \sqrt{bn + c}}{n} = \frac{1}{r} \xrightarrow{\text{hop}} \frac{b}{r\sqrt{bn + c}} = \frac{b}{r\sqrt{c}} = \frac{1}{r}$$

$$\begin{aligned} a + \sqrt{c} &= 0 \\ r\sqrt{c} &= \frac{1}{r} \\ -\sqrt{c} &= a \\ b &= \frac{r\sqrt{c}}{r} \\ -\sqrt{c} \times \frac{r\sqrt{c}}{r} &= \frac{-rc}{r} = -\frac{1}{r} \end{aligned}$$

$$\lim_{n \rightarrow -r\pi} \frac{f + k \left[\frac{n}{\pi} \right]}{\sin n} = +\infty$$

$\oplus$

$f - rk > 0$ $f > rk$ $k < \frac{f}{r}$ $\frac{f - rk}{0^+} = +\infty$
 $f - rk < 0$ $r k > f$ $k > \frac{f}{r}$ $\frac{f - rk}{0^-} = +\infty$

$[-k] = -r$

$$\lim_{n \rightarrow \infty} \frac{b\sqrt{r^2 n + r} - rb}{an - b} = \frac{\frac{b}{\sqrt{r^2 n + r}} \times \frac{1}{\sqrt{r^2 n + r}}}{\frac{a}{\sqrt{r^2 n + r}} \times \frac{1}{\sqrt{r^2 n + r}}} = \frac{1}{r}$$

$ra - b = -$ $ra = b$