

$$\frac{r^n - d}{(r^n - r)^r} \Rightarrow \frac{r^n - d}{r^n - r^n q^r} \Rightarrow \frac{a s - r}{b s r} \parallel \Rightarrow a + b s \parallel \Rightarrow \infty$$
$$\Rightarrow \frac{n}{n^2 + an + b} \cdot \frac{n}{(n - \sqrt{f})^2} \cdot \frac{n}{n^2 - \sqrt{f}n + f^{\frac{p}{2}}} \Rightarrow n^2 + an + b = n^2 - \sqrt{f}n + f^{\frac{p}{2}} \quad (1.8)$$

$$a \leq \sqrt[r]{r} \parallel \Rightarrow \left[\frac{b}{a} \right] \leq \left[\frac{\sqrt[r]{r}}{\sqrt[r]{r}} \right]$$

$$\frac{b}{a} = -\left(r^{\frac{5}{2}} - \frac{a}{r}\right) = -r^{-\frac{1}{2}} = \frac{-1}{\sqrt{r}} \rightarrow \left[\frac{b}{a}\right] = -1$$

$$\lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \frac{f(a)}{g(a)} \text{ if } g(a) \neq 0$$

[illegible]

$$\lim_{n \rightarrow (-\frac{1}{r})^+} \frac{15n - [-\frac{r}{n^2}]}{r^2 n \cdot [-\frac{r}{n^2}]} = \frac{15n + 9}{r^2 n + 1r} = \frac{15x - \frac{1}{r} + 9}{r^2 x - \frac{1}{r} + 1r} = \frac{1}{0^+} = +\infty$$

$$\lim_{n \rightarrow \infty} \frac{u^n - f}{u^n - [u^n]} = \frac{u^n - f}{u^n - \lambda} = \frac{(u-f)(u+f)}{(u-f)(u^n + f u + f)} = \frac{u+f}{u^n + f u + f} = \frac{f}{1-f} = \frac{1}{\mu}$$

$$\lim_{n \rightarrow \infty} \frac{n^{r/2} \cdot (q+1)^S}{(r+1)^S \sqrt{n}} \cdot \frac{(n+1)^{(n+r)}}{S(\sqrt{n}+r)} \cdot \frac{(\sqrt{n}+r)(\sqrt{n}+r)(q+1)^S}{S(\sqrt{n}+r)} \cdot \frac{(q+1)^S (\sqrt{n}+r)(\sqrt{n}+r)}{S} - \text{diff} - S$$

$$\Rightarrow \frac{(-1)(-1)(-1)(-1)(-1)}{(-1)} = (-1)$$

$$\lim_{n \rightarrow 0} \frac{\sqrt{r+rn} - \sqrt{r-n}}{\sqrt{1-\cos n}} \times \frac{pp}{pp} \Rightarrow \frac{r n}{\sqrt{1-\cos n}} \times \frac{1}{|\sin n|} \times \frac{\sqrt{1+\cos n}}{\sqrt{r+rn} \sqrt{r-n}} \quad -V$$

$$= \frac{r n}{-\sin n} \times \frac{\sqrt{r}}{r \sqrt{r}} \Rightarrow \frac{r n}{-n} \times \frac{1}{r} \sqrt{r} \quad \checkmark$$

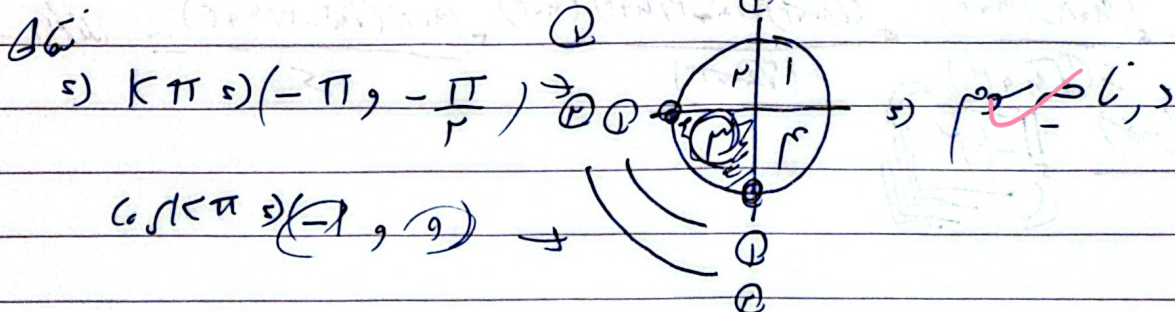
$$\lim_{n \rightarrow 0} \frac{k + \cos(\sqrt{an})}{k n^r} \Rightarrow \frac{k + (1 - \frac{an^r}{r})}{k n^r} = \frac{k + 1 - \frac{an^r}{r}}{k n^r} \Rightarrow \frac{1}{r} \quad -\Delta$$

$$\text{HOP} \Rightarrow \frac{-an}{r k n} \Rightarrow \frac{-a}{r k} \Rightarrow \frac{a}{r k} \Rightarrow \frac{a}{k} \Rightarrow -\frac{a}{k} \quad \checkmark$$

$$\lim_{n \rightarrow (\frac{1}{a})^+} \frac{\sqrt{a-rn} + \sqrt{rn} - \sqrt{ra}}{\sqrt{a^2 - 9a^2}} \Rightarrow \frac{\sqrt{a-rn} + \sqrt{rn} - \sqrt{ra}}{\sqrt{a-rn} \sqrt{a+rn}} \Rightarrow \frac{(\sqrt{a-rn}) + (\sqrt{a-rn})}{\sqrt{a-rn} \sqrt{a+rn}} \Rightarrow \frac{2}{\sqrt{a+rn}} \Rightarrow \frac{2}{\sqrt{a}} \quad \checkmark$$

ارفاؤ

$$\lim_{n \rightarrow (-1)} \frac{1 - k[n]}{n^2 - 1} \Rightarrow \begin{cases} + \Rightarrow \frac{1+k}{n^2-1} \Rightarrow -\infty \Rightarrow 1+k > 1 \Rightarrow k > 0 \\ - \Rightarrow \frac{1-k}{n^2-1} \Rightarrow -\infty \Rightarrow 1-k < 1 \Rightarrow k < 0 \end{cases}$$



هنگامی که n به $\sqrt[3]{4}$ میل میکند صورت مثبت است بنابراین مخرج باید به صفر مثبت میل کند!

بنابراین $u = \sqrt[3]{4}$ ، بسطی مفاعف مخرج است!

$$(n - \sqrt[3]{4})^2 = n^2 - 2\sqrt[3]{4}n + \sqrt[3]{16} \quad \rightarrow a = -2\sqrt[3]{4} \leq -\sqrt[3]{16}$$

$$\hookrightarrow b = \sqrt[3]{16}$$

$$\frac{b}{a} = \frac{2^{\frac{4}{3}}}{-2 \times 2^{\frac{2}{3}}} = (-2)^{-\frac{1}{3}} = \frac{-1}{\sqrt[3]{2}} \xrightarrow{\sqrt[3]{2} \approx 1} \boxed{\left[\frac{b}{a}\right] = -1}$$

$$\lim_{n \rightarrow \sqrt{4a}^+} \frac{2\sqrt{n-4a}}{\sqrt{n-4a}\sqrt{n+4a}} + \frac{3(\sqrt{n}-\sqrt{4a})}{\sqrt{n-4a}\sqrt{n+4a}} = \lim_{n \rightarrow \sqrt{4a}^+} \frac{2}{\sqrt{4a}} + \frac{3(\sqrt{n}-\sqrt{4a})}{\sqrt{n-4a}\sqrt{n+4a}} \times \frac{\sqrt{n}+\sqrt{4a}}{\sqrt{n}+\sqrt{4a}}$$

$$\lim_{n \rightarrow \sqrt{4a}^+} \frac{2}{\sqrt{4a}} + \frac{3(\sqrt{n-4a})}{\sqrt{n-4a}\sqrt{n+4a}(\sqrt{n}+\sqrt{4a})} = \lim_{n \rightarrow \sqrt{4a}^+} \left(\frac{2}{\sqrt{4a}} + \frac{3\sqrt{n-4a}}{\sqrt{n-4a}(\sqrt{n}+\sqrt{4a})} \right) = \lim_{n \rightarrow \sqrt{4a}^+} \frac{2}{\sqrt{4a}} + 0 \rightsquigarrow \frac{2}{\sqrt{4a}} = \sqrt{\frac{4}{4a}} = \sqrt{\frac{1}{a}}$$