

$$\Rightarrow \lim_{n \rightarrow \infty} \frac{|x-1||x+r|}{a(\ln n)} \leq \frac{|x.c|}{a} \leq \frac{r}{a} \leq 1 \Rightarrow \boxed{a \leq r}$$

$$\Rightarrow b, \frac{V}{-r} \Rightarrow ab, \frac{V}{-r} \times r_s - e, V$$

$$\Rightarrow \left\{ \begin{array}{l} \lim_{x \rightarrow 1^+} f(x) = c_1 + b(1 + \{a, 1\}) \\ f(1) = c_1 + b(1 + \{a, 1\}) \\ \lim_{x \rightarrow 1^-} f(x) = a + b(\{a, 1\}) \end{array} \right\} \begin{array}{l} c_1 + b + b\{a, 1\}, a + b\{a, 1\} \\ \rightarrow a - b \end{array}$$

$$\Rightarrow \lim_{n \rightarrow \infty} a - a[n+1] = a - a[n] - a = -a[n] \Rightarrow \frac{a[n]}{f(n)}, \frac{a[n]}{-a[n]}$$

$$\rightarrow b_{s.} \rightarrow \text{für } s = a \rightarrow \frac{a}{f(b)}, \frac{a}{f(0)}, \frac{a}{-a}, \dots, \frac{1}{r}$$

$$\Rightarrow \left\{ \begin{array}{l} a + a_{m+n} = 0 \\ \frac{C_{a+m}}{-1} \text{ s.t. } \Rightarrow C_{a, m-1} \end{array} \right.$$

$$\Rightarrow \begin{matrix} m_{s=+1/2} \\ m_{s=-1/2} \end{matrix} \left\{ \begin{matrix} a, \uparrow \\ m_{s=-1/2} \end{matrix} \right. \quad \Lambda s \Lambda \rightarrow n, m, l, E$$

$$f(\omega) + 0 \leq i$$

$$\{-n\} \rightarrow \begin{cases} -\{n\} & n \in \mathbb{Z} \\ -\{n\}-1 & n \notin \mathbb{Z} \end{cases}$$

-v

$$\Rightarrow (La)\{n\} + (a-1)(-\{n\}-1) = (La)\{n\} - (a-1)(n) - (a-1)$$

$$+ \{n\}(1-a-a+1) - (a-1) \Rightarrow -a-1+a+1 \Rightarrow \begin{cases} a-1 \\ a-\frac{r}{c} \end{cases}$$

$$\Rightarrow f(m) \rightarrow \begin{cases} -(a-1) \\ b \sin(\frac{n}{a}) \end{cases} \rightarrow \begin{cases} a-1 \rightarrow m_s \\ a-\frac{r}{c} \checkmark \end{cases} \rightarrow \begin{cases} -r \\ b \sin(-\pi) \end{cases}$$

$$f(m) \rightarrow \begin{cases} -\frac{1}{r} \\ b \sin(\frac{c\pi}{r}) \end{cases} \rightarrow b \sin(\frac{c\pi}{r}) \cdot -\frac{1}{c} \rightarrow b \cdot \frac{1}{r}$$

$$\Rightarrow \frac{a}{b} \cdot \frac{r}{c} \cdot \frac{1}{r}$$

-A

$$\lim_{n \rightarrow 1} f(n) = f(1) \rightarrow \lim_{n \rightarrow 1} \frac{|n+m-m|}{m|n+1|+m+1} \cdot \frac{|n+1||n+m+1|}{|n-1|(m|n+1|+1)}$$

$$\cdot \frac{|m+r|}{m+1} = f(1) \cdot \frac{m}{m+r} \Rightarrow \begin{cases} m \geq r \Rightarrow \frac{m}{m+r} \rightarrow \frac{m}{m+r} \rightarrow m_s - 1 \\ m < r \Rightarrow \frac{-(m+r)}{m+r} \cdot \frac{m}{m+r} \rightarrow \Delta \end{cases}$$

$$m_s - 1 \in \mathbb{Z} \Rightarrow m_s \in \mathbb{Z} \checkmark$$

$$\lim_{n \rightarrow \frac{1}{c}} f(m) \lim_{n \rightarrow \frac{1}{c}} \frac{|n+m-m|}{\varepsilon(m+1)+|n-1|} \cdot \frac{\frac{1}{c}-\varepsilon}{-\frac{1}{c}+\frac{1}{c}} \cdot \frac{-\frac{1}{c}}{\frac{1}{c}} \cdot \frac{1}{\frac{1}{c}} \checkmark$$

$$a^r a^{r-1} (m-r)a = 0$$

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$$\lim_{n \rightarrow a} \frac{\sqrt[n]{n!}}{|n^r(m-r)a|} \cdot \frac{0}{0} \Rightarrow \sqrt[n]{n!} \cdot a/s \Rightarrow a_s \cdot \frac{1}{a_s-1} \rightarrow m_s \checkmark$$

$$f(x) = \frac{\sqrt{x} |x-1|}{|x^2+1|} \Rightarrow \lim_{x \rightarrow -1} \frac{\sqrt{x} |x-1|}{|x^2+1|}, \frac{\sqrt{x} |x-1|}{|x+1||x-1|}$$

$$= \left. \frac{\sqrt{x}}{|x^2+1|} \cdot \frac{\sqrt{x}}{x} \right\}$$

$$\lim_{x \rightarrow 0} f(x) = f(0) \Rightarrow \lim_{x \rightarrow 0} \frac{\sqrt{x} |x|}{|x^2+1|} = \frac{0}{1} = 0$$

$$\Rightarrow \left\{ \begin{array}{l} \lim_{x \rightarrow 0^+} \frac{\sqrt{x}}{\sqrt{x+1}} = \frac{0}{1} = 0 \\ \lim_{x \rightarrow 0^-} \frac{\sqrt{-x}}{\sqrt{-x+1}} = \frac{0}{1} = 0 \end{array} \right\} \Rightarrow \frac{1}{a}, \frac{0}{1} = 0$$

$$\lim_{x \rightarrow \frac{1}{f}} f(x) = \lim_{x \rightarrow \frac{1}{f}} \frac{\sqrt{x} |x|}{\sqrt{x^2+1}}, \frac{\frac{1}{f}, \frac{1}{f}}{\frac{1}{f}, 1}, \frac{\frac{1}{f}}{\frac{1}{f}} = \frac{1}{f}$$

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