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$$f(x) = x \left[\frac{x-a}{x} \right] + a \left[\frac{x+a}{x} \right] \quad x \rightarrow a, \quad x \rightarrow -a \quad \rightarrow -a(x \rightarrow x-a) \quad \rightarrow$$

$$x \rightarrow -a \quad \rightarrow -a(x \rightarrow x-a) \quad \rightarrow \left[\frac{x-a}{x} \right] \quad x \rightarrow$$

$$\rightarrow \frac{x+a}{x} \quad \rightarrow \left[\frac{x+a}{x} \right] \quad x \rightarrow$$

$$\rightarrow x \rightarrow \infty \rightarrow a \rightarrow x \rightarrow \left[\frac{x}{x} \right] \rightarrow 1 \quad \rightarrow f(-x) \rightarrow x \quad f(x) \rightarrow \infty$$

$$\lim_{x \rightarrow \frac{a}{a}} [x \sin a - 1] \rightarrow \sin \frac{a}{a} \rightarrow \frac{1}{a} \quad x \rightarrow \frac{1}{a} \rightarrow 1$$

$$1 - 1 \rightarrow 0 \quad [0] \rightarrow 1$$

$$\lim_{x \rightarrow -\frac{1}{a}} [x \sin a - 1] \rightarrow \sin \left(\frac{x}{a} \right) \rightarrow \left(-\frac{1}{a} \right) \rightarrow \left[-\frac{1}{a} \right] \rightarrow 1$$

$$\lim_{x \rightarrow \frac{1}{a}} \frac{x - \sin \left[\frac{x}{a} \right]}{x \sin \left[-\frac{x}{a} \right]} = \frac{0 - 0}{0} = \frac{0}{0} \quad \rightarrow \frac{1 - \cos \frac{x}{a}}{1 + \cos \frac{x}{a}} \quad \rightarrow \frac{1 - \cos \frac{x}{a}}{1 + \cos \frac{x}{a}}$$

$$\lim_{x \rightarrow 1^+} \frac{\sin x}{x} = \frac{0}{0} \quad \rightarrow \frac{1 - \cos x}{1 + \cos x} \quad \rightarrow \frac{(1 - \cos x)(1 + \cos x)}{1 + \cos x} \quad \rightarrow \frac{1 - \cos^2 x}{1 + \cos x} \quad \rightarrow \frac{\sin^2 x}{1 + \cos x}$$

$$\lim_{x \rightarrow -1} \frac{\sqrt{x+1} - \sqrt{x+8}}{1-\sqrt{x}} \cdot \frac{1+\sqrt{x}}{1+\sqrt{x}} = \frac{1+\sqrt{x}}{1-\sqrt{x}} \cdot \frac{\sqrt{x+1} + \sqrt{x+8}}{\sqrt{x+1} \cdot \sqrt{x+8}} \quad -9$$

$$= \frac{(1+\sqrt{x+1})(1+\sqrt{x+8})}{(1-\sqrt{x})(1+\sqrt{x})} = \frac{-1 \cdot (1+1) \cdot (-1)}{1} = \frac{2}{1} \quad -10$$

$$\lim_{x \rightarrow 1} \frac{x - \sqrt{x+1}}{x - \sqrt{x+1}} \cdot \frac{1+\sqrt{x+1}}{1+\sqrt{x+1}} = \frac{1+\sqrt{x+1}}{x - \sqrt{x+1}} \quad -11$$

$$= \frac{-\frac{1}{2}}{\frac{0}{2}} = -\frac{1}{0} = \frac{\infty}{0} \quad -12$$

$$\lim_{x \rightarrow 0} \frac{a + \sqrt{bx+c}}{x} = \frac{1}{2} \Rightarrow a = \frac{1}{2} \Rightarrow a = \frac{1}{2} \quad -13$$

$$a + \sqrt{bx+c} \Rightarrow a + \sqrt{c} \Rightarrow \sqrt{c} = a \Rightarrow a = \sqrt{c} \quad -14$$

$$\lim_{h \rightarrow 0} \frac{h}{\sqrt{c}} = \frac{1}{\sqrt{c}} \Rightarrow h = \sqrt{c} \Rightarrow h = \frac{\sqrt{c}}{r} \quad -15$$

$$\Rightarrow \frac{dh}{c} = \frac{-\sqrt{c} + \frac{\sqrt{c}}{r}}{c} = \frac{1}{r} \quad -16$$

$$\lim_{x \rightarrow -\infty} \left[\frac{x}{a} \right] = \frac{1}{a} \Rightarrow \frac{x}{a} = \frac{1}{a} \Rightarrow x = \frac{1}{a} \quad -17$$

$$\Rightarrow \frac{x}{a} = \frac{1}{a} \Rightarrow x = \frac{1}{a} \quad -18$$

$$x = -\frac{1}{a} \Rightarrow \left[\frac{x}{a} \right] = \frac{1}{a} \Rightarrow \frac{x}{a} = \frac{1}{a} \Rightarrow x = \frac{1}{a} \quad -19$$

$$\Rightarrow \frac{1}{r} (k(r) \rightarrow, [k] \rightarrow -r)$$

$$\lim_{n \rightarrow \infty} \frac{b \sqrt{r} \sqrt{n} - rh}{an - b} = \frac{rh - rh}{na - n} \Rightarrow \frac{0}{\infty} = 0$$

$$\Rightarrow na - n \Rightarrow na = b, \quad \frac{(-1)^n}{n} \cdot \frac{0}{\infty} = 0$$

$$\Rightarrow \frac{n-1}{en - \varepsilon n} = \frac{n-1}{n(n-1)} = \frac{1}{n}$$