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$$f(n) = r \left\{ \frac{r-n}{r} \right\} + a \left\{ \frac{n+r}{r} \right\} \quad r \neq r \quad (1)$$

$$\lim_{n \rightarrow \infty} \left\{ \frac{r-n}{r} \right\} \rightarrow \frac{r-n}{r} \rightarrow \frac{r}{r} = 1 \quad \left\{ \frac{n+r}{r} \right\} \rightarrow 0$$

$$\lim_{n \rightarrow \frac{r}{4}} \{ r \sin n \} \rightarrow \{ 1-1 \} = \{ 0 \} = 1$$

$$n \rightarrow \frac{r}{4} \quad u < \frac{r}{4} \rightarrow \sin u < \sin \frac{r}{4} \quad r \sin u < r \sin \frac{r}{4}$$

$$\lim_{n \rightarrow \frac{1}{r}} \{ n^r - n \} = \left\{ -1 + \frac{1}{r} \right\} = \left\{ -\frac{1}{r} \right\} = 1$$

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

$$\lim_{n \rightarrow \frac{1}{r}} \{ n^r - a + \left\{ \frac{r}{n^r} \right\} \} = \frac{\ln n - a + 1}{\ln n - 1} = \frac{\ln n + 1}{\ln n + 1} = \frac{-a + 1}{-1 + 1} = 1$$

$$\lim_{n \rightarrow \frac{1}{r}} \left\{ \frac{1}{n^r} \right\} = \frac{1}{n^r} \rightarrow \frac{1}{r} \rightarrow \frac{1}{r} = 1$$

$$\frac{r}{n^r} < r$$

$$\lim_{n \rightarrow \frac{1}{r}} \frac{\sin^r n}{\{ n \} + \cos n} = \frac{1 - \cos^r n}{1 + \cos n} = \frac{(1 - \cos n)(1 + \cos n)}{(1 + \cos n)} = \frac{1 - \cos n}{-1} = r$$

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

$$\lim_{n \rightarrow \frac{1}{r}} \frac{r n - \sqrt{r n + r}}{r n - \sqrt{r n + 1}} \xrightarrow{\text{HOP}} \frac{r - \frac{r}{\sqrt{r n + r}}}{r - \frac{r}{\sqrt{r n + 1}}} = \frac{r - \frac{r}{r}}{r - \frac{r}{r}} = \frac{-\frac{r}{r}}{\frac{d}{r}} = \frac{-1}{10}$$

$$\lim_{n \rightarrow \frac{1}{r}} \frac{a + \sqrt{b n + c}}{n} = \frac{1}{r} \xrightarrow{\text{HOP}} \frac{b}{r \sqrt{b n + c}} = \frac{b}{r \sqrt{c}} = \frac{1}{r} \rightarrow r \sqrt{c} \leq b$$

$$\frac{a + \sqrt{c}}{c} \leq \frac{a - \sqrt{c}}{c} \quad \frac{-\sqrt{c} \times \sqrt{c}}{r} = \frac{-c}{r} = \frac{-1}{r}$$

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$$e^{-\frac{k}{\sigma^2} \left[\frac{\sigma^2}{11} \right]} \sim +\sigma \quad \left\{ \begin{array}{l} \sim \frac{k - 11k}{\sigma^2} = +\sigma \\ \sim \frac{k - 11k}{\sigma^2} \end{array} \right.$$

$$\frac{e^{-\frac{1}{2}K}}{1+2} \quad e^{-\frac{1}{2}K} \quad K \sim \frac{3}{2}$$

$$\frac{b \sqrt{x + \sqrt{m}} - b}{\sqrt{b^2 x^2 + m} - b} = \frac{\cancel{b} \sqrt{x + \sqrt{m}}}{x \sqrt{x + \sqrt{m}}} \cdot \frac{1}{\cancel{b} \sqrt{m}}$$