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$$\lim_{n \rightarrow \infty} \frac{k+k \left\lfloor \frac{n}{k} \right\rfloor}{\sin n} = +\infty \quad \left\{ \begin{array}{l} \frac{k-kk}{0^+} = +\infty \\ \frac{k-kk}{0^+} = +\infty \end{array} \right. \quad \begin{array}{l} k-kk > 0 \\ k < k \end{array} \quad (9)$$

$$\lim_{n \rightarrow \infty} \frac{k-kk}{\sin n} = +\infty \quad \begin{array}{l} k-kk < 0 \\ k > k \end{array} \quad \frac{k < k}{k} \quad (10)$$

$$\lim_{n \rightarrow \infty} \frac{b \sqrt{r + \sqrt{n}} - kb}{\sin n} = \frac{b \sqrt{r + \sqrt{n}}}{\sqrt{r + \sqrt{n}}} \times \frac{1}{\sqrt{n}} = \frac{1}{\sqrt{n}} \quad (11)$$