$$\frac{2^{2n-1}5-1}{4^n-3} \rightsquigarrow \frac{5}{2}: \quad \frac{3^{n+1}+4^n}{2^n+4^{n+2}} \rightsquigarrow \frac{1}{16}: \quad \left(\frac{5}{4}\right)^n \frac{4^{n+1}+1}{5^{n+1}-1} \rightsquigarrow \frac{4}{5}: \quad \frac{2^{2n}+3}{4^{n-1}+1} \rightsquigarrow 4$$

$$\frac{(-1/2)^n}{3n-8} \rightsquigarrow 0$$

$$\frac{4^n+1}{5^n}\,{}^{n}\mathfrak{a} \rightsquigarrow 0: \quad \frac{n^2}{n^3+2n+1}\,{}^{n!}\mathfrak{c} + \frac{3^n}{4^n}\,{}^{n}\mathfrak{s} \rightsquigarrow 0$$

$$\left(n+2n^2\right)^{2n^2-1} \rightsquigarrow +\infty$$

$$\left(n^2+3\right)^{\frac{n^2-3}{n^2+5}\not{e}} \rightsquigarrow -\infty$$

$$\left(9^n+10^n+11^n\right)^{1/n} \rightsquigarrow 11: \quad \left(3^n+4^n+5^n\right)^{1/n} \rightsquigarrow 5: \quad \left(2^n+3^n+100^n\right)^{1/n} \rightsquigarrow 100: \quad \left(2^n+3^n\right)^{-1/n} \rightsquigarrow \frac{1}{3}$$

$$: \quad \left(1+2^n+2^{-n}\right)^{1/n} \rightsquigarrow 2: \quad \left(\frac{4^n+2}{7^n+1}\right)^{1/n} \rightsquigarrow \frac{4}{7}$$

$$\frac{2^n 3^{2n}}{n!} \rightsquigarrow 0: \quad \frac{n!}{n^n} \rightsquigarrow 0: \quad \frac{n!2^n}{n^n} \rightsquigarrow 0: \quad \frac{(n!)^2}{(2n)!} \rightsquigarrow 0$$

$$\left(3^n+5^n\right)^{1/n} + \frac{2^n 3^{2n}}{n!} \rightsquigarrow 5: \quad \frac{3^n 6^n}{n!}\,{}^{n!}\mathfrak{s} \rightsquigarrow 0$$

$$\frac{1+\sqrt{2}+\sqrt{3}+\cdots+\sqrt{n}}{n^2} \rightsquigarrow 0$$

$$\frac{{}^{2^n+3^n+6^n}\not{e}}{n} \rightsquigarrow {}^{6}\not{e}: \quad \frac{{}^{2^n+3^n+6^n}\not{e}}{n} + \frac{{}^{n!}\mathfrak{a}}{n^2} \rightsquigarrow {}^{6}\not{e}$$

$$\left(n^2-1\right)^{1/(n-1)\mathfrak{s}} \rightsquigarrow +\infty$$

$$\frac{{}^{1/n\mathfrak{s}}\mathfrak{e}}{n} \rightsquigarrow 0: \quad \frac{{}^{n}\mathfrak{c}}{n^{2\,1/n\mathfrak{s}}} \rightsquigarrow 0$$

$${}^{1/n\mathfrak{s}/n}\not{e} \rightsquigarrow -\infty$$

$$\frac{{}^{1/n}\mathfrak{s}^2}{{}^{1/\sqrt{n}}\mathfrak{a}} \rightsquigarrow 0$$

$$\left(\frac{1}{3}^n + \frac{4}{5}^n\right)\,{}^{n}\mathfrak{a} \rightsquigarrow 0: \quad \left(\frac{2}{3}^n + \frac{3}{5}^n + \frac{1}{2}^n\right)\,{}^{2n}\mathfrak{s} \rightsquigarrow 0: \quad \left(\frac{1}{2}^n + \frac{2}{3}^n + \frac{11}{12}^n\right)\,{}^{n!}\mathfrak{c} \rightsquigarrow 0$$

$$\frac{1+2+\cdots+n}{n^2}\left(5^n+6^n+7^n\right)^{1/n} \rightsquigarrow \frac{7}{2}$$

$$\sqrt{\sqrt{9n^2+2n}-3n}_{\mathfrak{a}} \rightsquigarrow {}^{1/\sqrt{3}}{}_{\mathfrak{a}}$$

$$6-\sqrt{5\cdot 5^{1/2}5^{1/4}5^{1/8}\cdots 5^{1/2^n}}_{\mathfrak{a}} \rightsquigarrow \frac{\pi}{4}$$

$$\left(n^3+n^2+1\right)^{-1/3}-\left(n^3-n^2+1\right)^{1/3} \rightsquigarrow -\infty$$