$$\frac{e^x + e^{-x} - 2}{1 - \cos x} \underset{0}{\searrow} : \quad \frac{(1 - \cos x)^2}{4x + 3x^2 + 1} \underset{0}{\searrow} : \quad \frac{\tan x - \sin x}{x\,(1 - \cos x)} \underset{0}{\searrow}$$

$$^{x}\log {}^{1-x}\log \underset{1-}{\searrow}$$

$$\frac{\log x}{\tan x} \underset{\infty}{\searrow} : \quad \sqrt{x+1} - \sqrt{x} \underset{\infty}{\searrow} : \quad \frac{x^2 + 5x + 16}{4x^2 - 7} \underset{\infty}{\searrow} \text{ horiz asymp}$$

$$\frac{^{1+x}\log}{x} \underset{0}{\searrow} . \frac{^{1+x+x^2}\log - x}{x^2} \underset{0}{\searrow}$$

$$\frac{x^2 - 3x - 10}{x + 2} \underset{-2}{\searrow} : \quad \frac{x+1}{x^3} \underset{0+}{\searrow} : \quad \frac{x+1}{x^3} \underset{0-}{\searrow} \text{ vert asymp}$$

$$\frac{1}{\sin x} - \frac{1}{x} \underset{0}{\searrow} : \quad x^2\, e^{-x} \underset{\infty}{\searrow} : \quad n \tan \frac{1}{n} \underset{\infty}{\searrow} : \quad \frac{^{x-9}\log}{x - 10} \underset{10}{\searrow} : \quad \frac{2x - \sin \pi x}{4x^2 - 1} \underset{1/2}{\searrow}$$

$$x^x \underset{0+}{\searrow} : \quad x^x \underset{\infty}{\searrow}$$

$$\frac{\sqrt{x} - 1}{\sqrt{x - 1}} \underset{1+}{\searrow} : \quad \frac{\log x}{1 - x} \underset{1\pm}{\searrow} : \quad x\left(e^{1/x} - 1\right) \underset{\infty}{\searrow}$$

$$?\text{ex } \cos \frac{1}{x} \underset{0}{\searrow}$$