

Indeterminate Forms						
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Example One: Evaluate:

$$\lim_{x \rightarrow 0} \frac{e^x - 1}{\sin x}$$

Example Two:

$$\lim_{x \rightarrow 0} \frac{1}{\sin x} - \frac{1}{x}$$

Example Three:

$$\lim_{x \rightarrow 0} \frac{x^2}{1 - \cos x}$$

Example Four:

$$\lim_{x \rightarrow 0} \frac{e^{2x} - 1}{x}$$

Example Five:

$$\lim_{x \rightarrow \infty} e^{-x} \ln x$$

Example Six:

$$\lim_{x \rightarrow \infty} x^3 e^{-x^2}$$