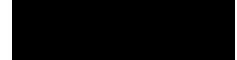




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$$\lim_{x \rightarrow \infty} \left[\frac{\frac{1}{2}(x^2+1)^{-\frac{1}{2}}(2x)}{1} \right] \lim_{x \rightarrow \infty} \left[\frac{x}{(x^2+1)^{\frac{1}{2}}} \right] \quad \frac{\infty}{\infty}$$



$$\lim_{x \rightarrow 0^+} [x^x] \quad 0^0$$

$$y = x^x$$

$$\ln(y) = \ln(x^x)$$

$$\ln(y) = x \ln(x)$$

$$\lim_{x \rightarrow 0^+} [e^{\ln(y)}] = e^{\lim_{x \rightarrow 0^+} [x \ln(x)]}$$

$$\lim_{x \rightarrow 0^+} [x \ln(x)] = 0$$

$$\lim_{x \rightarrow 0^+} [\ln(x)] = 0$$

$$\lim_{x \rightarrow 0^+} [e^{\ln(y)}] = e^0$$

$$\lim_{x \rightarrow 0^+} [y]$$

$$y = x^x$$

$$\lim_{x \rightarrow 0^+} [x^x]$$

