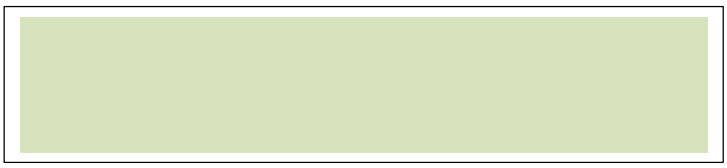

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$$\lim_{x\to\infty}\left[\frac{\frac{1}{2}\left(x^2+1\right)^{\frac{-1}{2}}(2x)}{1}\right] \quad \lim_{x\to\infty}\left|\frac{x}{(x^2+1)^{\frac{1}{2}}}\right| \quad \frac{\infty}{\infty}$$

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

$y \quad x^x$

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

$ln(y) = xln(x)$

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

$\lim_{x \to 0^+}[xln(x)] = 0$

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

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

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

$y \quad x^x$

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