

$$\infty - \infty, 0 \cdot \infty, 0^0, 1^\infty, \infty^0$$

(ex. 6) $\lim_{x \rightarrow 0} \left(\frac{1}{x^2} - \frac{1}{x^4} \right) = \lim_{x \rightarrow 0} \frac{x^2 - 1}{x^4} = -\infty$

$\infty - \infty$

$$\frac{x^2}{x^2} \frac{1}{x^2} - \frac{1}{x^4} \quad \frac{-1}{\rightarrow 0}$$

(ex. 8) $\lim_{x \rightarrow \infty} \left(\frac{1}{x} \ln x \right) = \lim_{x \rightarrow \infty} \frac{\ln x}{x} = \lim_{x \rightarrow \infty} \frac{\frac{1}{x}}{1} = \frac{0}{1} = 0$

$0 \cdot \infty$

$\frac{0}{\infty}$

p.263-264

1-6, 9-17 odd, 21, 23,
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