

$$\lim [f(x) + g(x)] = \lim f(x) + \lim g(x)$$

$$\left. \begin{array}{l} +\infty + L = +\infty \\ -\infty + L = -\infty \end{array} \right\} L \geq 0, L < 0$$

$$+\infty + (+\infty) = +\infty + \infty = +\infty$$

$$-\infty + (-\infty) = -\infty - \infty = -\infty$$

$$\lim [f(x) - g(x)] = \lim f(x) - \lim g(x)$$

$$\left. \begin{array}{l} +\infty - L = +\infty \\ -\infty - L = -\infty \end{array} \right\} \geq 0, L < 0$$

$$+\infty - (+\infty) = +\infty - \infty \quad \text{Indeterminació}$$

$$+\infty - (-\infty) = +\infty + \infty = +\infty$$

$$-\infty - (+\infty) = -\infty - \infty = -\infty$$

$$-\infty - (-\infty) = -\infty + \infty \quad \text{Indeterminació}$$

$$\lim [f(x) \cdot g(x)] = \lim f(x) \cdot \lim g(x)$$

$$+\infty \cdot L = +\infty \rightarrow L > 0$$

$$-\infty \cdot L = -\infty \rightarrow L > 0$$

$$+\infty \cdot L = -\infty \rightarrow L < 0$$

$$-\infty \cdot L = +\infty \rightarrow L < 0$$

$$+\infty \cdot (+\infty) = +\infty$$

$$-\infty \cdot (-\infty) = +\infty$$

$$-\infty \cdot (+\infty) = -\infty$$

$$+\infty \cdot (-\infty) = -\infty$$

$$0 \cdot (\pm\infty) \quad \text{Indeterminació}$$

$$\lim \left[\frac{f(x)}{g(x)} \right] = \frac{\lim f(x)}{\lim g(x)}$$

$$+\infty / L = +\infty \rightarrow L > 0$$

$$-\infty / L = -\infty \rightarrow L > 0$$

$$+\infty / L = -\infty \rightarrow L < 0$$

$$-\infty / L = +\infty \rightarrow L < 0$$

$$\left. \begin{array}{l} +\infty / (+\infty) \\ -\infty / (-\infty) \\ -\infty / (+\infty) \\ +\infty / (-\infty) \end{array} \right\} \text{Indeterminació}$$

$$0 / 0 \quad \text{Indeterminació}$$

$$+\infty / 0^+ = +\infty$$

$$+\infty / 0^- = -\infty$$

$$-\infty / 0^+ = -\infty$$

$$-\infty / 0^- = +\infty$$

$$L / 0^+ = +\infty \rightarrow L > 0$$

$$L / 0^- = -\infty \rightarrow L > 0$$

$$L / 0^+ = -\infty \rightarrow L < 0$$

$$L / 0^- = +\infty \rightarrow L < 0$$

$$L / (+\infty) = 0^+ \rightarrow L > 0$$

$$L / (-\infty) = 0^- \rightarrow L > 0$$

$$L / (+\infty) = 0^- \rightarrow L < 0$$

$$L / (-\infty) = 0^+ \rightarrow L < 0$$

$$\boxed{\lim [f(x)]^{g(x)} = \lim [f(x)]^{\lim g(x)}}$$

$$L^{+\infty} = +\infty \rightarrow L > 0$$

$$L^{-\infty} = 0 \rightarrow L > 0$$

$$L^{+\infty} = 0 \rightarrow 0 < L < 1$$

$$L^{-\infty} = +\infty \rightarrow 0 < L < 1$$

$$0^{+\infty} = 0$$

$$0^{-\infty} = \frac{1}{0^{+\infty}} = \frac{1}{0} = +\infty$$

$$0^L = 0 \rightarrow L > 0$$

$$(0^+)^L = \frac{1}{0^+} = +\infty \rightarrow L < 0$$

$$(0^-)^L = \frac{1}{0^+} = +\infty \rightarrow L < 0 \quad i \quad L = \text{parell}$$

$$(0^-)^L = \frac{1}{0^-} = -\infty \rightarrow L < 0 \quad i \quad L = \text{senar}$$

$$(+\infty)^L = +\infty \rightarrow L > 0$$

$$(+\infty)^L = \frac{1}{+\infty} = 0 \rightarrow L < 0$$

$$(+\infty)^{(+\infty)} = +\infty$$

$$(+\infty)^{(-\infty)} = \frac{1}{(+\infty)^{(+\infty)}} = \frac{1}{+\infty} = 0$$

$1^{\pm\infty}$ Indeterminació 0^0 Indeterminació $(\pm\infty)^0$ Indeterminació