$\lim_{x \to c} b = b$
$\lim_{x \to c} x = c$
$\lim_{x \to c} x^n = c^n$
$\lim_{x \to c} \sqrt[n]{x} = \sqrt[n]{c} \qquad n \text{ is even} \qquad c > 0$
$\lim_{x \to \infty} \left[\frac{p(x)}{q(x)} = \frac{a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0}{b_n x^n + b_{n-1} x^{n-1} + \dots + b_1 x + b_0} \right] = \frac{a_n}{b_n}$
$\lim_{x \to c} [bf(x)] = b \lim_{x \to c} f(x)$
$\lim_{x \to c} [f(x) \pm g(x)] = \lim_{x \to c} f(x) \pm \lim_{x \to c} g(x)$
$\lim_{x \to c} [f(x) \cdot g(x)] = \lim_{x \to c} f(x) \cdot \lim_{x \to c} g(x)$
$\lim_{x \to c} \left[\frac{f(x)}{g(x)} \right] = \frac{\lim_{x \to c} f(x)}{\lim_{x \to c} g(x)}$
$\lim_{x \to c} [f(x)]^n = \left[\lim_{x \to c} f(x) \right]^n$
$\lim_{x \to c} \sqrt[n]{f(x)} = \sqrt[n]{\lim_{x \to c} f(x)}$
$\lim_{x \to \infty} \frac{1}{x^n} = 0 \qquad n > 0$
$n \ even \qquad \lim_{x \to \pm \infty} x^n = \infty$
$n \ odd \lim_{x \to \infty} x^n = \infty \qquad \lim_{x \to -\infty} x^n = -\infty$
$\lim_{x \to \infty} e^x = \infty \qquad \lim_{x \to -\infty} e^x = 0$
$\lim_{x \to \infty} \ln(x) = \infty \qquad \lim_{x \to 0^+} \ln(x) = 0$