

Grenzwertsätze:

$$\lim_{x \rightarrow c} [f(x) + g(x)] = \lim_{x \rightarrow c} f(x) + \lim_{x \rightarrow c} g(x)$$

$$\lim_{x \rightarrow c} [f(x) + f(x)] = \lim_{x \rightarrow c} f(x) + \lim_{x \rightarrow c} f(x) = 2 \cdot \lim_{x \rightarrow c} f(x)$$

$$\lim_{x \rightarrow c} [f(x) \cdot f(x)] = \lim_{x \rightarrow c} f(x) \cdot \lim_{x \rightarrow c} f(x) = \left(\lim_{x \rightarrow c} f(x) \right)^2$$