$$f \approx g \implies \lim_{n \to +\infty} \frac{f}{g} = 1 \implies f = O(g)$$

$$f = o(g) \implies \lim_{n \to +\infty} \frac{f}{g} = 0 \implies f = O(g)$$

$$f = O(g) \implies \text{se } \exists C \in \mathbb{R}_{>0} \text{ e } \exists N \in \mathbb{N} \text{ tali chi}$$

$$|f(n)| \leq C \cdot g(n)$$

$$f = \Omega(g) \implies \text{se } \exists C \in \mathbb{R} \text{ e } \exists N \in \mathbb{N} \text{ tali che}$$

$$g(n) \leq C \cdot f(n)$$

$$f = O(g) \iff g = \Omega(f)$$

$$f = \Theta(g) \quad \text{se} \quad f = O(g) \text{ e } f = O(g)$$