# Big-O notation

Tuesday, September 6, 2022 9:01 PM

O - notation :

$f(n)$ is $O(g(n))$ if $\exists n_0, c$ such that $c \cdot f(n) \leq g(n)$, for large $n$ ($n \geq n_0$)

$\Rightarrow$ $g$ is an upper bound of $f$.

$f(n) = n^2 + 3n + 1$ is $O(n^2)$