

R-3.13

By the definition of big-Oh, we need to find a real constant $c > 0$ and an integer constant $n_0 \geq 1$ such that $(n+1)^5 \leq c(n^5)$ for every integer $n \geq n_0$. One of many possibilities is: $(n+1)^5 \leq c(n^5)$ for $c = 8$ and $n_0 = 1$.