

Assignment #1

1.

Choose an arbitrary n_0 , eg. $n_0 = 1$.

$$Cn_0^3 > n_0^3 - 5n_0^2 + 20n_0 - 10$$

$$C * 1^3 > 1^3 - 5 * 1^2 + 20 * 1 - 10$$

$$C > 1 - 5 + 20 - 10$$

$$C = 6, n_0 = 1$$

For all n , where $n > 1$, $6n^3 > n^3 - 5n^2 + 20n - 10$.