

Question 1

Let $T(n) = 2n^3 + 7$.

Show from first principles that

- (a) $T(n) \in O(n^3)$
- (b) $T(n) \in \Omega(n^3)$
- (c) $T(n) \in \Theta(n^3)$

$C =$ _____

$N =$ _____

$C =$ _____

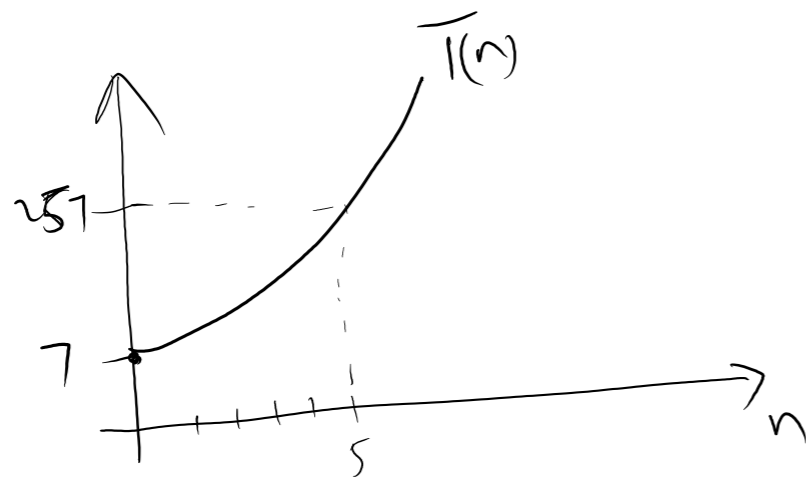
$N =$ _____

$C_1 =$ _____

$N_1 =$ _____

$C_2 =$ _____

$N_2 =$ _____



Question 2

Show from first principles that $n^2 - 10n + 25$ is in $\Theta(n^2)$

