Math 299

Homework 10

For each of the following statements, determine whether it is true or false and then prove your answer.

- 1. There is some $n \in \mathbb{N}$ such that $9n^2 < n^3 < 15n^2$.
- 2. There is some $n \in \mathbb{N}$ such that $n < n^3 < 4n$.
- 3. There is some $n \in \mathbb{R}$ such that $n < n^3 < 4n$.