MATH 201 FALL 2017 GRADED HOMEWORK #1

Write clearly. Both questions carry equal weight.

For each proposition, write a formal proof.

(1) Let n be an integer. Then $n^2 - 3n + 6$ is even.

(2) Let x be a real number. If $x^3 + 7x^2 - 8 \leq 0$, then $x \leq 1$.