MATH 201C FALL 2016 GRADED HOMEWORK #1

Write clearly. Both questions carry equal weight.

For each question, write a formal proof.

(1) Let m and n be integers. If m-n is odd, then m and n have opposite parity.

(2) Let x be a real number. If $2x^3 + x > 3x^2$, then x > 0.