

MATH 201C FALL 2015 GRADED HOMEWORK #1

Write clearly. Both questions carry equal weight.

For each question, 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 $x^3 - 2x^2 + x > 0$, then $x > 0$.