

MATH 201 SPRING 2018 GRADED HOMEWORK #1

Write clearly. Both questions carry equal weight.

For each proposition, write a formal proof.

(1) Let n be an integer. Then $n^2 - n + 4$ is even.

(2) Let n be an integer. If $n^3 + n^2 + n + 3$ is even, then n is odd.