

MATH 201 SPRING 2021 GRADED HOMEWORK #1

Write clearly. Both questions carry equal weight.

For each question, write a formal proof.

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

(2) Let x be an integer. If $2x^2 - x^3 - x < 0$, then $x > 0$.