

BOWDOIN COLLEGE

MATH 2020: INTRODUCTION TO MATHEMATICAL REASONING

PROF. THOMAS PIETRAHO

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HOMEWORK 4

1. Page 283 #8,9
2. Using the method from class, show that the sum of an even number and an odd number is odd.
3. Using the method from class, show that the rational numbers are closed under addition, that is, the sum of two rational numbers is rational.

You must use the definition of a rational number as part of your proof in this problem.

EXTRA CREDIT

- p. 283 #14: Please explain your reasoning for this problem!