January 17, 2024

MAT-255– Number Theory Spring 2024 In Class Work January 17

Your Name: _____ Group Members: _____ _____

Problem 1 *Prove*

Theorem 1 (Ernst, Theorem 2.2)**.** *If n is an even integer, then n^2 is even.*

Wait for more lecture before proceeding to the back

Problem 2 *Prove*

Theorem 2. *Let $a, b, c, m, n \in \mathbb{Z}$. If $c \mid a$ and $c \mid b$ then $c \mid ma + nb$.*