

# Homework #3

## Revision Problem

Due: Fri., Feb. 9<sup>th</sup>, 2024Name: My Name Goes Here

**Revision Problem (Homework #2 Problem #4):** Let  $a, b, c \in \mathbb{Z}$ . Assume  $a$  divides  $b$ ,  $a$  divides  $c$ , and  $\gcd(b, c) = 1$  (i.e.,  $b$  and  $c$  are relatively prime). Show  $a$  divides  $bc$ .

**Proof:** THIS IS MY PROOF  $\square$