

MATH 74 HOMEWORK 2
DUE MONDAY, SEPTEMBER 8TH

- (1) Do Eccles, 2.1, 2.3, 3.3, 3.4, 3.5.
- (2) Let a , b , and c be integers. Show by example that it is not necessarily the case that if a divides c and b divides c then ab divides c .
- (3) Let a and b be integers. Prove that if $|a| = |b|$ then either $a = b$ or $a = -b$. (Hint: divide into cases!)