

Math 220 - Discrete Mathematics - Fall 2016

Homework 7a

Due Wednesday, October 24

1. BOOK PROBLEMS

Chapter 5 # 1, 2, 3, 4, 5, 7, 12, 13, 14, 17

2. ADDITIONAL PROBLEMS

- (1) Decide whether each of these integers is congruent to 3 modulo 7
 - (a) 37
 - (b) 66
 - (c) -17
 - (d) -122
- (2) When finding b in $a \equiv b \pmod{n}$, we can always find an integer b such that $0 \leq b \leq n - 1$. Find such a b in the following situations
 - (a) $228 \equiv b \pmod{119}$
 - (b) $-17 \equiv b \pmod{2}$
 - (c) $144 \equiv b \pmod{7}$
 - (d) $199 \equiv b \pmod{19}$