## MTH 309

## Additional Problems for Section 4.1

- 1. Evaluate these quantities (recall in the textbook,  $[a]_m$  is denoted by  $a \mod m$ ):
  - (a)  $[45]_4$
  - (b)  $[144]_7$
  - (c)  $[-20]_3$
  - (d)  $[-101]_{13}$
- 2. True or False (justify your answer):
  - (a)  $37 \equiv 3 \pmod{7}$
  - (b)  $73 \equiv 3 \pmod{7}$
  - (c)  $-24 \equiv 1 \pmod{5}$
  - (d)  $35 \equiv -5 \pmod{8}$