

Name \_\_\_\_\_

**No calculators are allowed.**

1. (6 points) Fill in the blanks with correct answers chosen from the set  $\{0, 1, 2, 3, 4, 5, 6, 7, 8\}$ .

(a)  $22 \equiv \underline{\hspace{1cm}}$  (mod 9)

(b)  $81936 \equiv \underline{\hspace{1cm}}$  (mod 9)

(c)  $-16 \equiv \underline{\hspace{1cm}}$  (mod 9)

2. (2 points) Find four values of  $x$  (two positive and two negative) such that  $x \equiv 4 \pmod{5}$

3. (2 points) Fill in the blanks by performing the following operations on an 8-hr clock.

(a)  $7 \oplus 3 =$  \_\_\_\_\_

(b)  $3 \ominus 6 =$  \_\_\_\_\_