

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)  $24 \equiv \underline{\hspace{2cm}} \pmod{9}$

(b)  $45918 \equiv \underline{\hspace{2cm}} \pmod{9}$

(c)  $-15 \equiv \underline{\hspace{2cm}} \pmod{9}$

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

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

(a)  $6 \oplus 5 =$  \_\_\_\_\_

(b)  $2 \ominus 4 =$  \_\_\_\_\_