Math 255

Name:

Problem 1: In this problem we will explore Lemma 1 of Section 6. Let p = 11 and a = 4.

For each of the following integers, compute their **least residue** modulo 11:

 $4, 2 \cdot 4, 3 \cdot 4, 4 \cdot 4, 5 \cdot 4, 6 \cdot 4, 7 \cdot 4, 8 \cdot 4, 9 \cdot 4, 10 \cdot 4.$

What do you notice? Write **one** sentence.