

Name: \_\_\_\_\_

Math 203: Contemporary Mathematics

**Quiz 4:** Tuesday, January 27, 2009

The following two questions are worth up to 3 bonus points each. These points will be based on the accuracy, completeness, and clarity of your responses. Use full sentences, and avoid saying things that are untrue, ambiguous, or nonsensical. You may use your book or any notes that you have.

1. What are the differences between reflection symmetry, rotation symmetry, and translation symmetry?

2. Choose **one** of the following problems:

[Section 2.1, problem 5(b).] The sum of all but one of the  $n$  vertex angles of a regular  $n$ -gon is  $3078^\circ$ . Find the value of  $n$  and the measure of the remaining vertex angle.

— **OR** —

Describe an interesting thing you discovered about polyominoes by playing around with them.