Math 344 – Fall 08
Section 001 - Caughman
Homework #2
Due Thursday 10 – 9

1. Can a finite 2-D figure with a non-trivial rotation symmetry have exactly one reflection (flip) symmetry? Justify.

2. Determine how many symmetries a square has. For each symmetry:

    a. Write a verbal description of the symmetry.

    b. Draw a diagram to illustrate the symmetry (show how the figure moves and what happens to the points).

    c. Express each symmetry in terms of ***F*** (where ***F*** is an appropriately chosen flip symmetry) and ***R*** (where ***R*** is an appropriately chosen rotational symmetry).