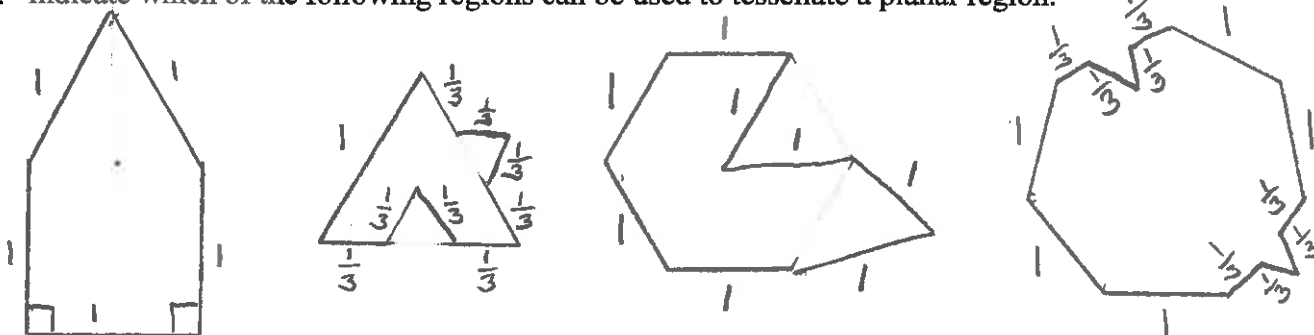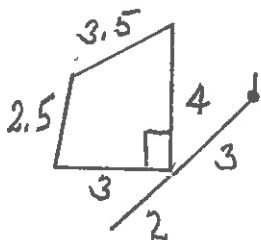# MATH 108 EXAM 2 OCTOBER 28, 2013 REVIEW SHEET

MATERIAL: Polygons, Symmetry, Tessellations, Similar, Proportions, Circles, Areas, Perimeters.
Ch. 18, 19.1, 20.1, 20.2, 20.4, 21.1, 22.1-22.2
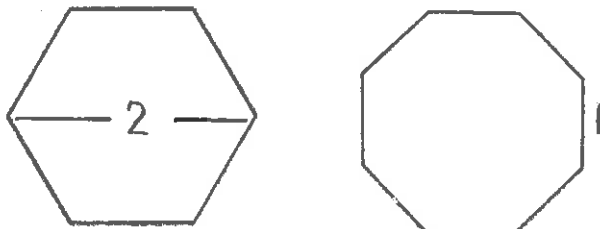
Sample Questions.

1. p.426 Rotation Symmetry Exercise, p. 427-428 8, 10, 11, p. 429 1, p. 455 9d, p.459 6
2. p. 463-464 2,3, p. 491 Isometry Transformations, p. 493 2,3, p. 497 4,5, p. 498 7,8 , p. 499 2
3. Indicate which of the following regions can be used to tessellate a planar region.
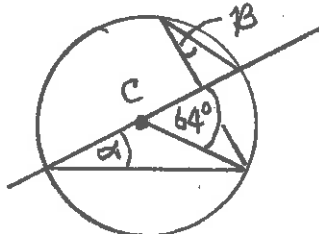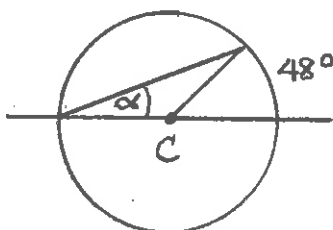

4. The following polygon is going to be magnified proportionally according to the line shown and labeled. Give the perimeter of the similar magnified polygon under this magnification.

5. Give the area to perimeter ratio for the following regular polygons.

6. Give the number of degrees covered by the following. (a) $\frac{1}{15}$ of a circle (b) 25 minutes on a circular clock (c) 3 slices of an 8 slice pizza (d) between a quarter of a circle and two thirds of the circle.
7. Give the percentage of a circle covered by (a) 36 degrees (b) 12 minutes on a clock (c) 300 degrees.
8. Give the angles in the following circles. C is the center of the circle.

9. Give the resulting image if the pentagon is revolved 180 degrees around the point P.