

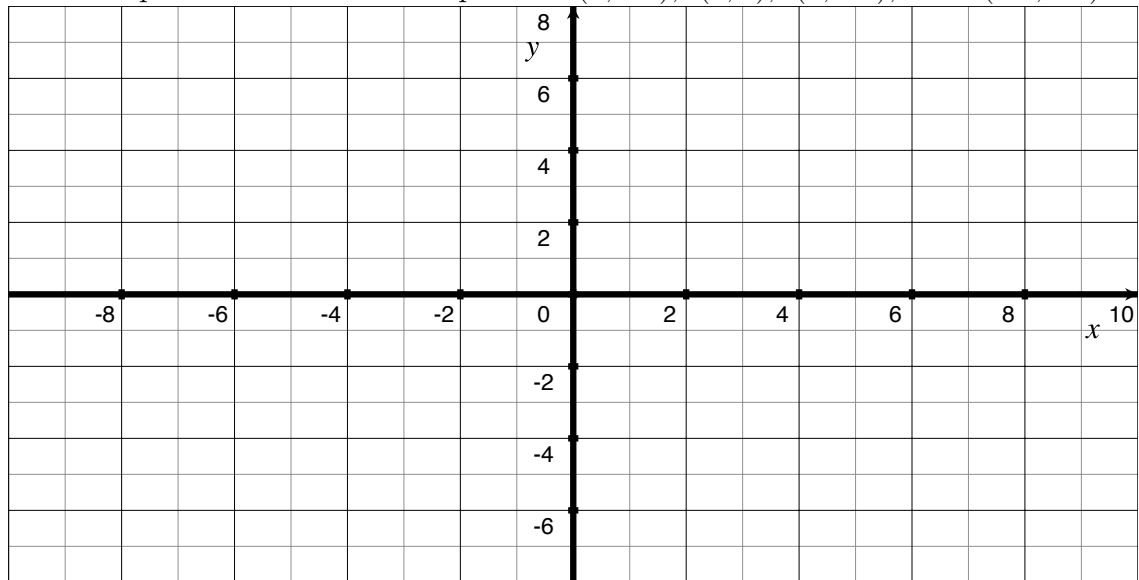
Math 213

Sections 12.2

Form yourselves into groups of three to answer the following questions. Turn in one copy for each group with all the group member's names on it. This worksheet is due Friday 8/21 by 4:30 pm in my box.

1. Do question 5 under the check section of the sample school book page on page 848.
2. Two geometric shapes are *similar* if it possible to transform one onto the other by a sequence of isometries followed by a size transformation.

(a) Draw a quadrilateral with the points: $(1, -2)$, $(5, 1)$, $(0, -4)$, and $(-3, -3)$.



- (b) Draw the image of the quadrilateral under the following size transformations with the center at the origin and a scale factor of:
 - i. 1
 - ii. 2
 - iii. -1
 - iv. -2
- (c) What is the image of the points (x, y) under a size transformation with center at the origin and a scale factor of r .