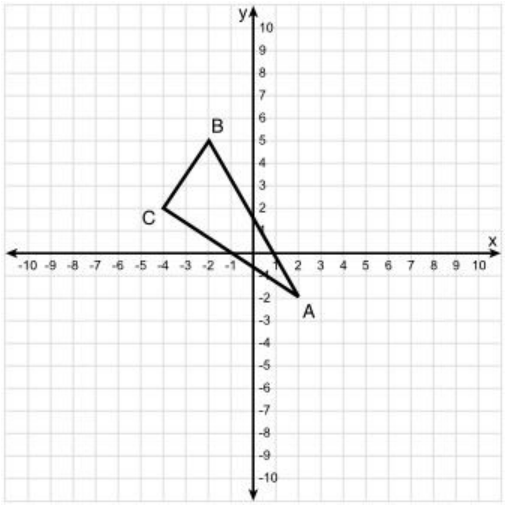
Study Guide

Due day of midterm (Wednesday 10/2 or Thursday 10/3)

1) A triangle called ABC is rotated 90 degrees about the origin. What is the measure of angle AOA'?

2) Reflect triangle ABC across line x=4. Then reflect across x=-1. What do you notice about the original triangle and the new triangle?

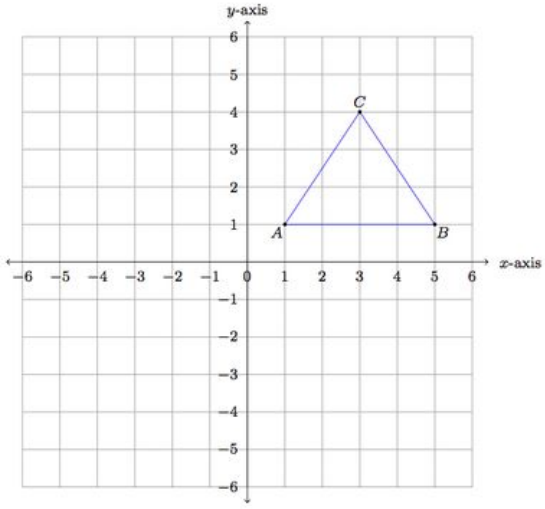


3) Reflect the point T (-4, 9) across the y-axis. Then rotate 180 degrees about the origin. Where is T''?

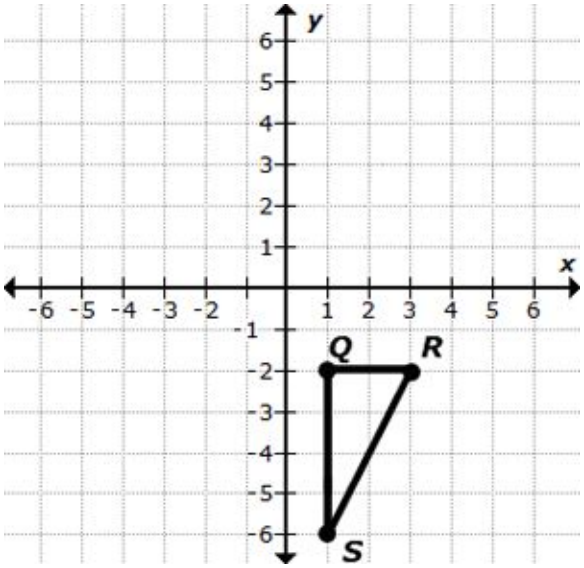
4) What is the rule for reflecting over y=x?

5) Draw a pair of parallel lines.

6) The triangle below is transformed by the rule (x, y) -> (y-2, -x). Draw the new triangle.



7) Reflect triangle QRS across y=x



8) What transformations take a parallelogram back onto itself?

Rotations:

Reflections:

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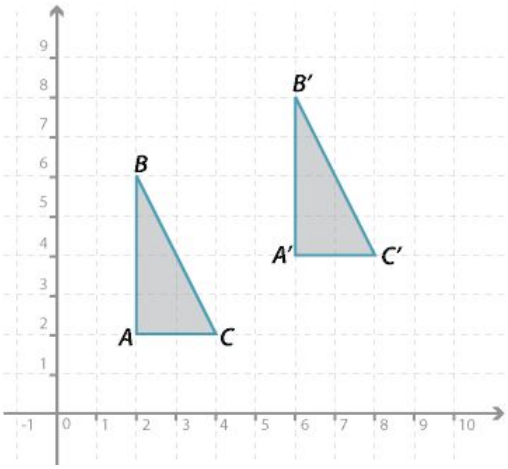
9) What kind of transformation happened below? Write the rule.



10) List all the angles about the center of each shape that will take the shape back onto itself:

a. Square

b. Regular Pentagon

c. Regular Hexagon

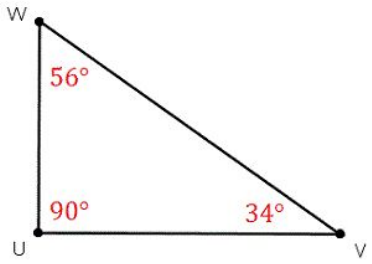
d. Regular Octagon

11) Rotate the segment with endpoints A (3, -4) and B (3, -1) 90 degrees clockwise. Where are A' and B'?

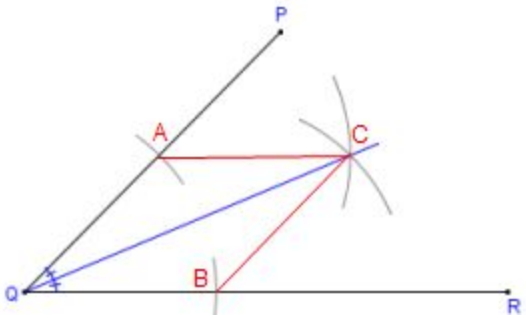
12) How many points does a line segment contain?

13) Draw two intersecting lines.

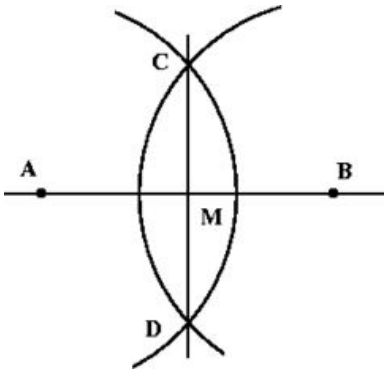
14) The following triangle is rotated 30 degrees counterclockwise about point W. What is the measure of V'?



15) Name the construction:



16) Name the construction:



17) Draw two perpendicular lines. How many right angles do they form?