Homework: _____

Learning Targets:

4a.   Understanding of how to preform translations, rotations, reflections, & dilations on a coordinate plane.
4b.   Understanding of how to read and write transformation rules.
4c.   Understanding of how to preform compositions of translations, rotations, and reflections.
4d.   Understanding of how to read and write composition transformation rules.
4e.   Understanding of which transformations maintain congruency.
4f.   Understanding of how to find missing measures or solve equations given different transformations.

Vocabulary:

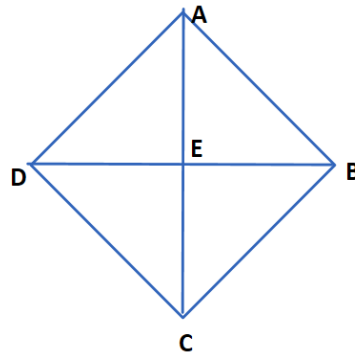90, 180, 270 turns   Angle of Rotation   Center of Rotation
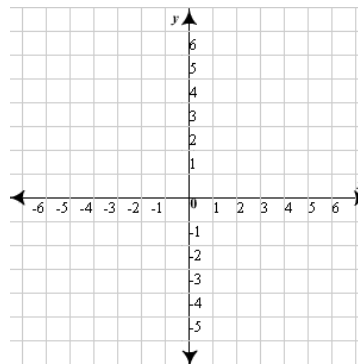Clockwise   Counterclockwise   Rotation
Rotational Symmetry

Use the figure to the right to determine each rotation.

1.   90° clockwise rotation of $\overline{AE}$ about E

2.   180° clockwise rotation of $\overline{DE}$ about E

3.   90° counterclockwise rotation of $\overline{AB}$ about E

4.   270° clockwise rotation of $\overline{CD}$ about E

Use a coordinate plane to help you determine the coordinates of A(2, 3) after each rotation.

5.   90° counterclockwise

6.   270° counterclockwise

7.   180° clockwise

8.   90° clockwise

Extra Possible Problems

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Activities for Lesson

- Cabri Jr Activity
- Patty Paper Rotations
- Human Rotations (practice clock and counterclockwise
- Vocabulary Foldable

Possible Assignments

- Page 194 (7 – 16)
- Rotation Practice #1
- Rotation Practice #2