SECONDARY MATH I // MODULE 6 TRANSFORMATIONS AND SYMMETRY - 6.5

Lesson 5

READY, SET, GO!	Name	Key	Period	Date
READY		Ŭ		

Topic: Polygons, definition and names

1. What is a polygon? Describe in your own words what a polygon is.

2. Fill in the names of each polygon based on the number of sides the polygon has.

Number of Sides	Name of Polygon		
3	Trianale		
4	Triangle Quadrilateral		
5	Pentagon hexagon heptagon octagon		
6	hexagon		
7	heotagon		
8	octagon		
9	nonagon		
10	<u>nonagon</u> <u>decagon</u>		
	<u> </u>		

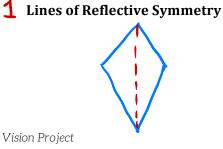
SET

Topic: Kites, Lines of symmetry and diagonals.

3. One quadrilateral with special attributes is a kite. Find the geometric definition of a kite and write it below along with a sketch. (You can do this fairly quickly by doing a search online.)



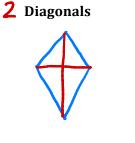
4. Draw a kite and draw all of the lines of reflective symmetry and all of the diagonals.



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Lesson 5

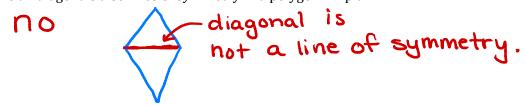
5. List all of the rotational symmetry for a kite.

No rotational symmetry

6. Are lines of symmetry also diagonals in a polygon? Explain.

1 line of symmetry is also a diagonal.

6. Are all diagonals also lines of symmetry in a polygon? Explain.



7. Which quadrilaterals have diagonals that are not lines of symmetry? Name some and draw them.



8. Do parallelograms have diagonals that are lines of symmetry? If so, draw and explain. If not draw and explain.



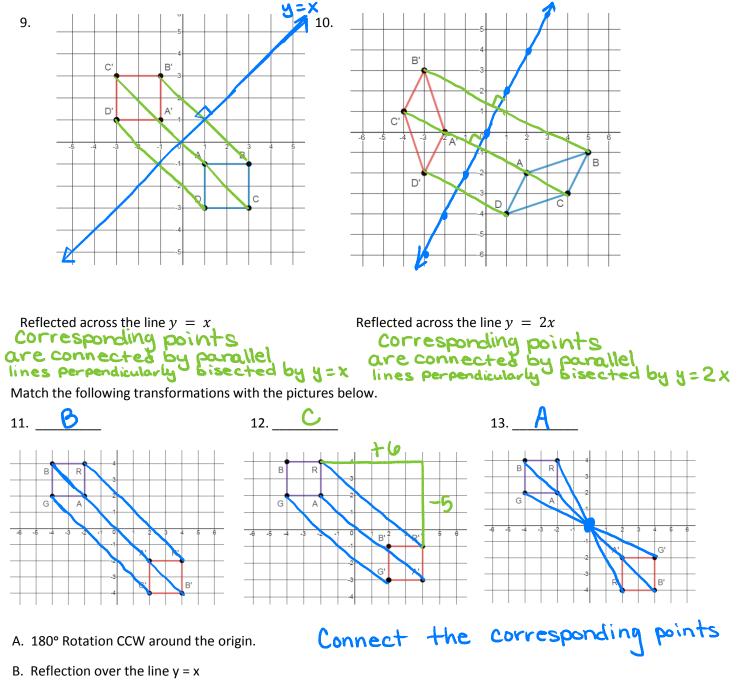
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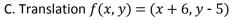


GO

Topic: Justifying and Matching Transformations.

Justify how you know that the shape has been reflected accurately across the line of reflection.







Adapted from MVP Page 35