P.S. #6.8 - Identifying Transformations

Name: _____ Class: _____

Name the four transformations:

1.

2.

3.

4.

Directions: Use the images on the smart board to answer the questions below.

1.) Name the transformation:

_____

How do you know? _____

_____

_____

Now be more specific. _____

_____

_____

2.) Name the transformation:

_____

How do you know? _____

_____

_____

Now be more specific. _____

_____

_____

3.) Name the transformation:

_____

How do you know? _____

_____

_____

Now be more specific. _____

_____

_____

4.) Name the transformation:

_____

How do you know? _____

_____

_____

Now be more specific. _____

_____
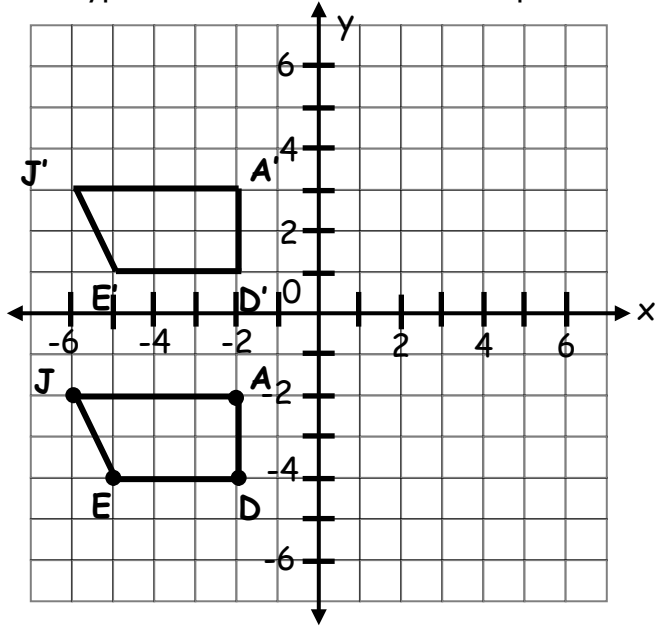
_____

5.) Name the transformation: _____

How do you know? _____

_____

Now, be more specific. _____

_____

1.)   What type of transformation does trapezoid JADE undergo in the following graph?
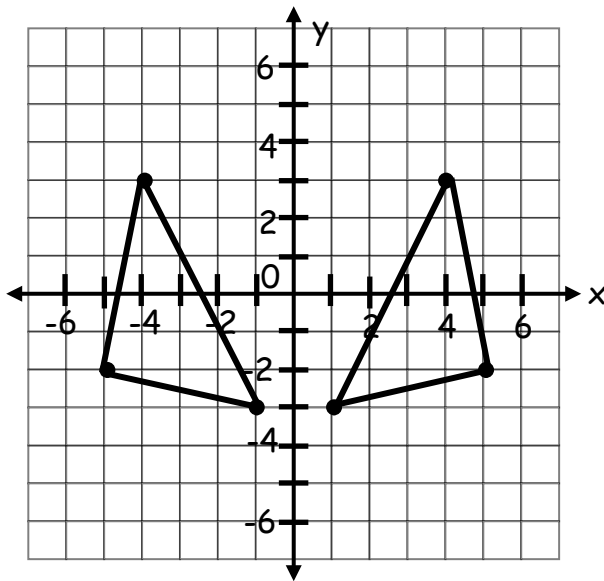

Transformation: _____

How do you know? _____

_____

Now, be more specific!   _____

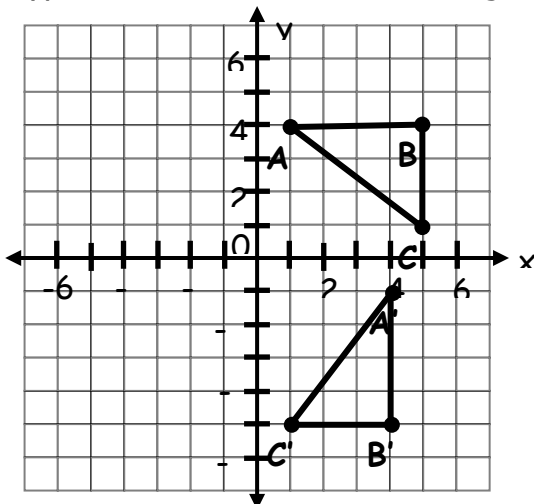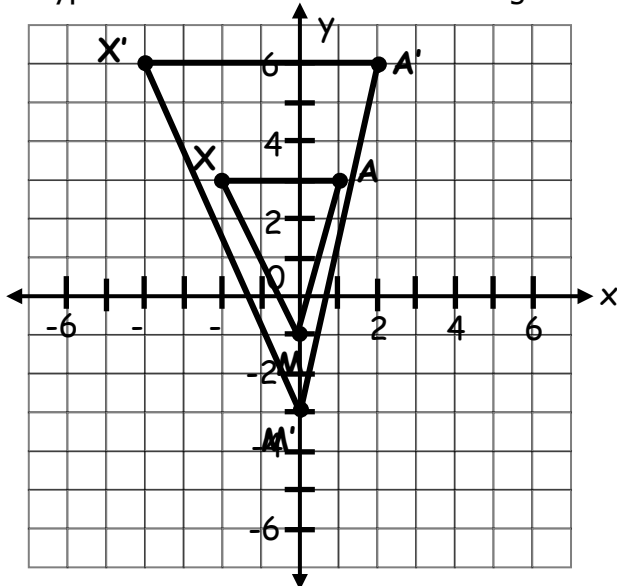2.)   What type of transformation does the triangle undergo in the following graph?

Transformation: _____

How do you know? _____

_____

Now, be more specific!   _____

_____

3.)   What type of transformation does triangle ABC undergo in the following graph?

Transformation: _____

How do you know? _____

_____

Now, be more specific!   _____

_____

4.) What type of transformation does triangle MAX undergo in the following graph?
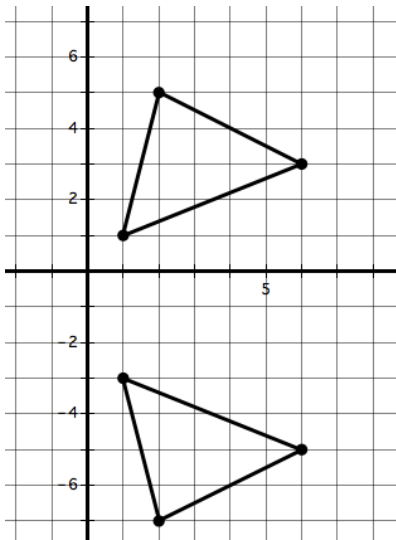

Transformation: _____

How do you know? _____

_____

Now, be more specific! _____

_____

5.) What type of transformation does the triangle undergo in the following graph?
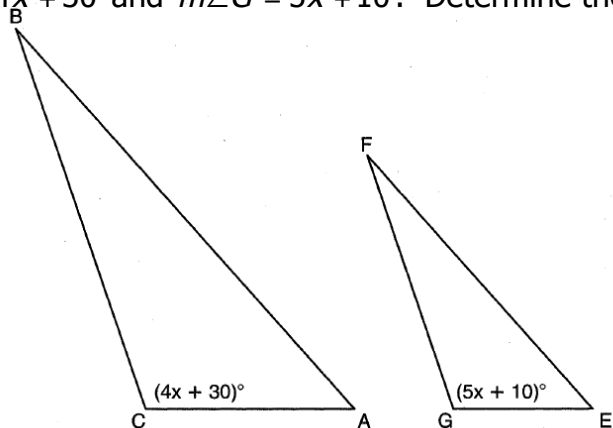

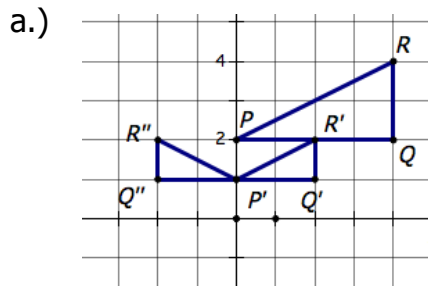Transformation: _____

How do you know? _____

_____

Now, be more specific! _____

_____

6.) In the diagram below, $\triangle ABC \sim \triangle EFG$, $m\angle C = 4x + 30$ and $m\angle G = 5x + 10$. Determine the value of x.
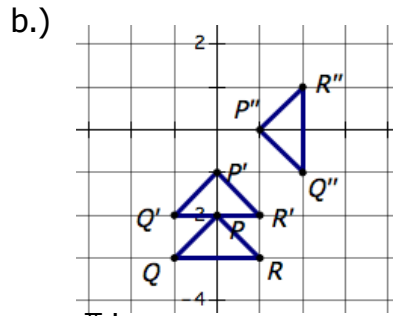
7.) Determine the series of transformations that maps ΔPQR to ΔP"Q"R". Then, determine if ΔPQR is congruent or just similar to ΔP"Q"R".
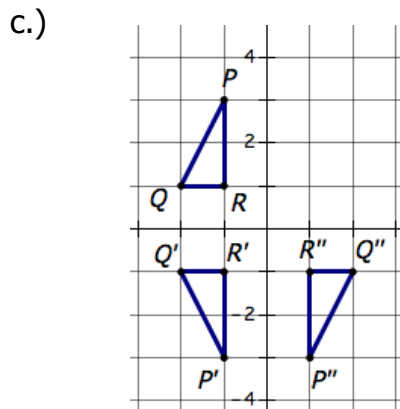
a.)

#1: _____

#2: _____

Congruent or Similar (Circle One)

b.)

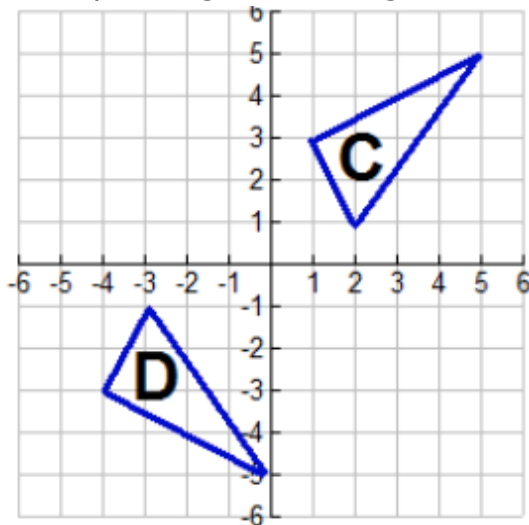

#1: _____

#2: _____

Congruent or Similar (Circle One)

c.)

#1: _____

#2: _____

Congruent or Similar (Circle One)

What is a single transformation that can maps ΔPQR to ΔP"Q"R"? _____

8.) Describe a sequence of transformations that maps triangle C to triangle D.

9.) Describe a sequence of transformations that maps triangle E to triangle G.