READY, SET, GO!

Name

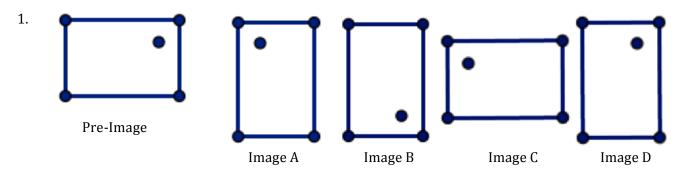
Period

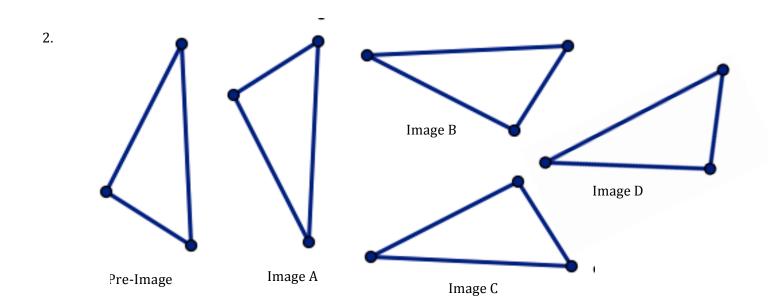
Date

READY

Topic: Rotations and Reflections of figures.

In each problem there will be a pre-image and several images based on the give pre-image. Determine which of the images are rotations of the given pre-image and which of them are reflections of the pre-image. If an image appears to be created as the result of a rotation and a reflection then state both.



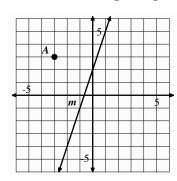


SET

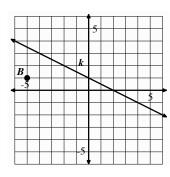
Topic: Reflecting and rotating points.

On each of the coordinate grids there is a labeled point and line. Use the line as a line of reflection to reflect the given point and create its reflected image over the line of reflection.

3.



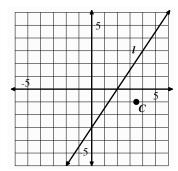
4.



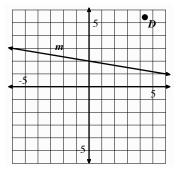
Reflect point *A* over line *m* and label the image *A'*

Reflect point \boldsymbol{B} over line \boldsymbol{k} and label the image $\boldsymbol{B'}$

5.



6.

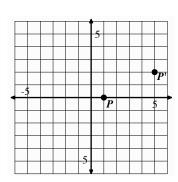


Reflect point *C* over line *I* and label the image *C'*

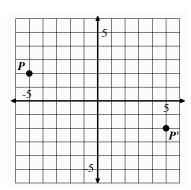
Reflect point **D** over line **m** and label the image **D'**

For each pair of point, P and P' draw in the line of reflection that would need to be used to reflect P onto P'. Then find the equation of the line of reflection.

7.

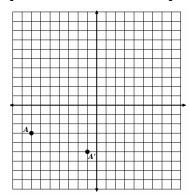


8.

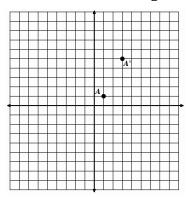


For each pair of point, A and A' draw in the line of reflection that would need to be used to reflect A onto A'. Then find the equation of the line of reflection. Also, draw a line connecting A to A' and find the equation of this line. Compare the slopes of the lines of reflection containing A and A'.

9.



10.



GO

Topic: Slopes of parallel and perpendicular lines and finding slope and distance between two points.

For each linear equation write the slope of a line parallel to the given line.

11.
$$y = -3x + 5$$

$$12. y = 7x - 3$$

13.
$$3x - 2y = 8$$

For each linear equation write the slope of a line perpendicular to the given line.

14.
$$y = -\frac{2}{7}x + 5$$

15.
$$y = \frac{1}{5}x - 4$$

$$16.\,3x + 5y = -15$$

Find the *slope* between each pair of points. Then, using the Pythagorean Theorem, find the *distance* between each pair of points. You may use the graph to help you as needed.

b. Distance:

a. Slope:

b. Distance:

