

READY, SET, GO!

Name

Period

Date

READY

Topic: Defining polygons and their attributes

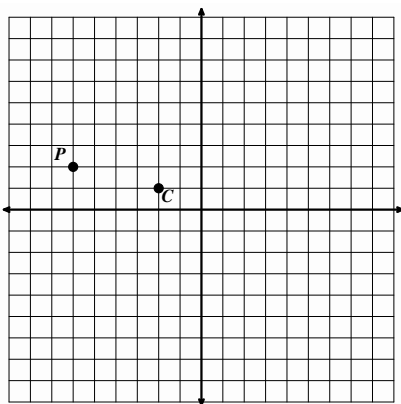
For each of the geometric words below write a definition of the object that addresses the essential elements. Also, list necessary attributes and characteristics.

1. Quadrilateral:
2. Parallelogram:
3. Rectangle:
4. Square:
5. Rhombus:
6. Trapezoid:

SET

Topic: Reflections and rotations, composing reflections to create a rotation.

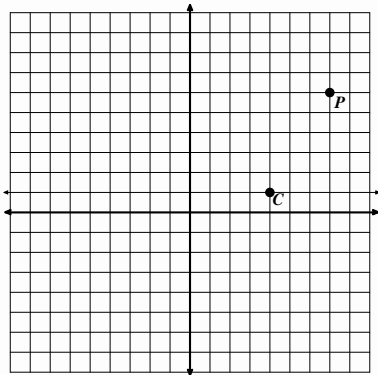
7.



Use the center of rotation point C and rotate point P clockwise around it 90° . Label the image P' .

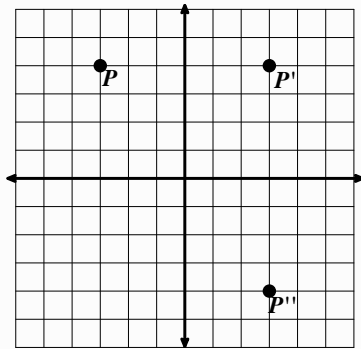
With point C as a center of rotation also rotate point P 180° . Label this image P'' .

8.



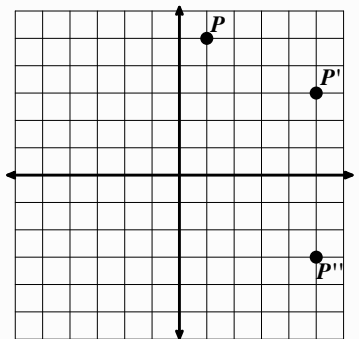
Use the center of rotation point C and rotate point P clockwise around it 90° . Label the image P' .
 With point C as a center of rotation also rotate point P 180° . Label this image P'' .

9.



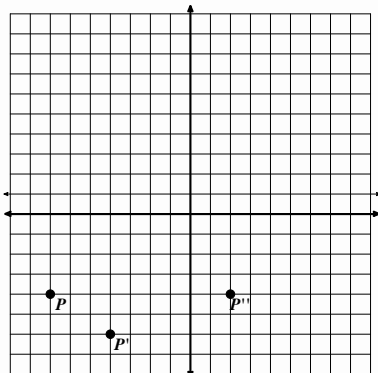
- What is the equation for the line for reflection that reflects point P onto P' ?
- What is the equation for the line of reflections that reflects point P' onto P'' ?
- Could P'' also be considered a rotation of point P ? If so what is the center of rotation and how many degrees was point P rotated?

10.



- What is the equation for the line for reflection that reflects point P onto P' ?
- What is the equation for the line of reflections that reflects point P' onto P'' ?
- Could P'' also be considered a rotation of point P ? If so what is the center of rotation and how many degrees was point P rotated?

11.



- What is the equation for the line for reflection that reflects point P onto P' ?
- What is the equation for the line of reflections that reflects point P' onto P'' ?
- Could P'' also be considered a rotation of point P ? If so what is the center of rotation and how many degrees was point P rotated?

GO

Topic: Rotations about the origin.

Plot the given coordinate and then perform the indicated rotation in a clockwise direction around the origin, the point (0, 0), and plot the image created. State the coordinates of the image.

12. Point **A** (4, 2) rotate 180°
Coordinates for Point **A'** (__ , __)

13. Point **B** (-5, -3) rotate 90° clockwise
Coordinates for Point **B'** (__ , __)

14. Point **C** (-7, 3) rotate 180°
Coordinates for Point **C'** (__ , __)

15. Point **D** (1, -6) rotate 90° clockwise
Coordinates for Point **D'** (__ , __)

