8.3 Rotations Day 1

TSW understand concept of rotation

- *drawing images after rotation
- *find coordinates of points after rotation

Vocabulary

Clockwise

Counter clockwise

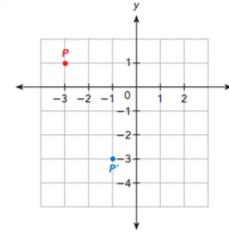
Take out Math book and Turn to Example 10. You will also need to take out a protractor.

Guided Practice

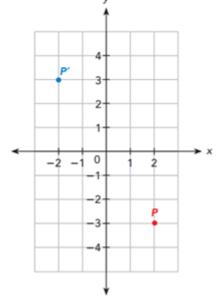
Solve. Show your work.

 $oxed{1}$ P is rotated counterclockwise to P' about the origin. Copy each graph onto a coordinate plane. State the angle of rotation.

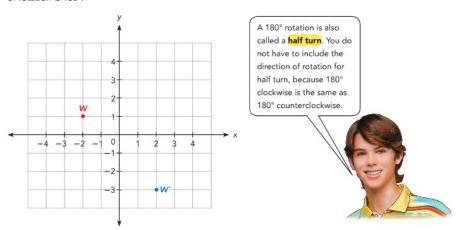
a)



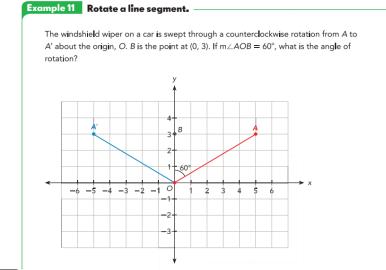
b)



2 The tip of a fan blade for a ceiling fan rotates from position W to W'. The angle of rotation is 180°.



- a) On a copy of the graph, mark and label the center of rotation as T.
- b) W' is rotated 90° clockwise to W'' about the center T. Label W'' on the graph in a).



Guided Practice

Complete.

- 3 The hour hand of a clock turns through an angle from 12 noon to 4 P.M. State the following.
 - a) The center of rotation
 - b) The angle and direction of rotation