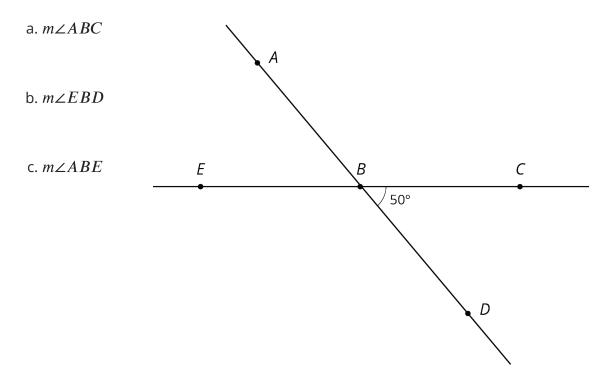


Lesson 8 Practice Problems

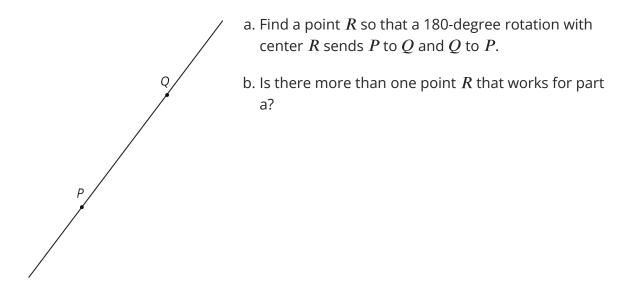
1. a. Draw parallel lines *AB* and *CD*.

b. Pick any point *E*. Rotate *AB* 90 degrees clockwise around *E*.

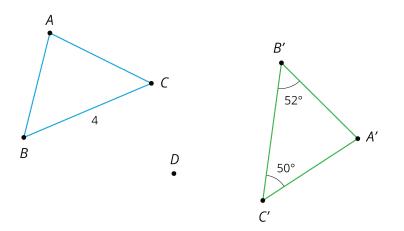
- c. Rotate line *CD* 90 degrees clockwise around *E*.
- d. What do you notice?
- 2. Use the diagram to find the measures of each angle. Explain your reasoning.



3. Points P and Q are plotted on a line.



4. In the picture triangle A'B'C' is an image of triangle ABC after a rotation. The center of rotation is D.



- a. What is the length of side B'C'? Explain how you know.
- b. What is the measure of angle *B*? Explain how you know.
- c. What is the measure of angle C? Explain how you know.

(From Unit 1, Lesson 6.)



- 5. The point (-4, 1) is rotated 180 degrees counterclockwise using center (0, 0). What are the coordinates of the image?
 - A. (-1, -4) B. (-1, 4) C. (4, 1) D. (4, -1)

(From Unit 1, Lesson 5.)