

NAME: _____

UNIT 5 • TRANSFORMATIONS IN THE COORDINATE PLANE

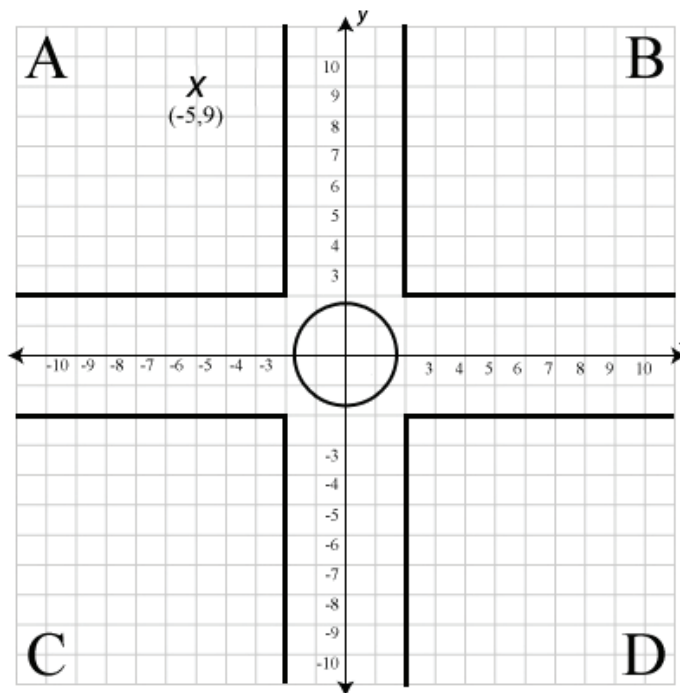
Lesson 1: Introducing Transformations

Problem-Based Task 5.1.3: Lining the Plaza

A construction crew is building a park plaza that will include a fountain and 8 cherry trees. Two perpendicular walkways will cross through the middle of the plaza, intersecting in the center where the fountain will be placed. The plans call for the trees to be planted in positions that meet the following criteria:

- There are 2 trees in each quadrant.
- The diagonals of each quadrant are lines of symmetry for the quadrant.
- The walkways are lines of symmetry for the plaza.

The plan for the plaza has been laid onto the coordinate map shown below and the location of the first tree in quadrant A has been marked. Find the locations for the remaining trees.



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Lesson 1: Introducing Transformations

Coaching

- What should be the coordinates of the second tree in quadrant A?
- What should be the coordinates of the 2 trees in quadrant B?
- What should be the coordinates of the remaining trees in quadrants C and D?