

Lesson 11 Practice Problems

1. Which of these constructions would construct a line of reflection that takes the point *A* to point *B*?

 $m \perp \ell$

m

Р

- A. Construct the perpendicular bisector of segment *AB*.
- B. Construct a line through *B* perpendicular to segment *AB*.
- C. Construct the line passing through *A* and *B*.
- D. Construct a line parallel to line AB.
- 2. A point *P* stays in the same location when it is reflected over line ℓ .

What can you conclude about *P*?

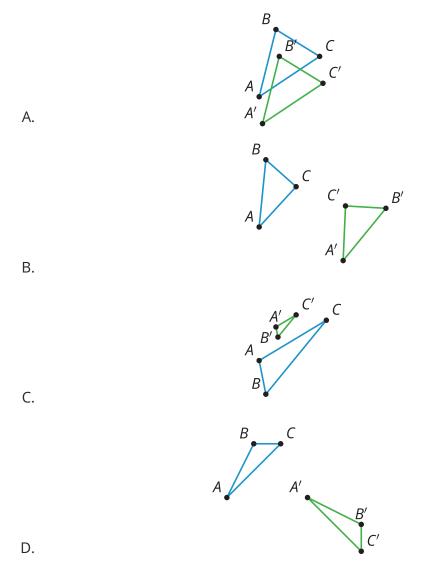
3. Lines ℓ and *m* are perpendicular with point of intersection *P*.

Noah says that a 180 degree rotation, with center P, has the same effect on points in the plane as reflecting over line m. Do you agree with Noah? Explain your reasoning.

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4. Here are 4 triangles that have each been transformed by a different transformation. Which transformation is *not* a rigid transformation?



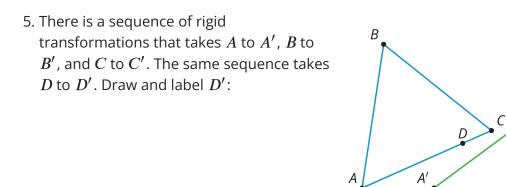
(From Unit 1, Lesson 10.)



Β'

C'

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(From Unit 1, Lesson 10.)

6. Here are 3 points in the plane. Explain how to determine whether point *C* is closer to point *A* or point *B*.



(From Unit 1, Lesson 9.)

7. Diego says a quadrilateral with 4 congruent sides is always a regular polygon. Mai say it never is one. Do you agree with either of them?

(From Unit 1, Lesson 7.)