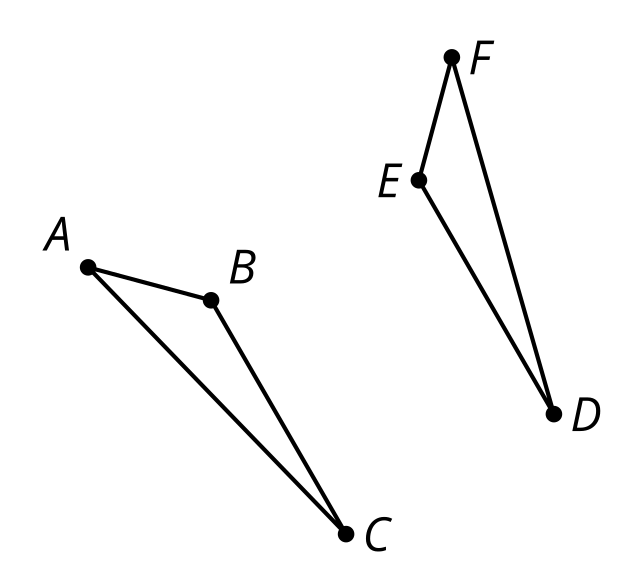
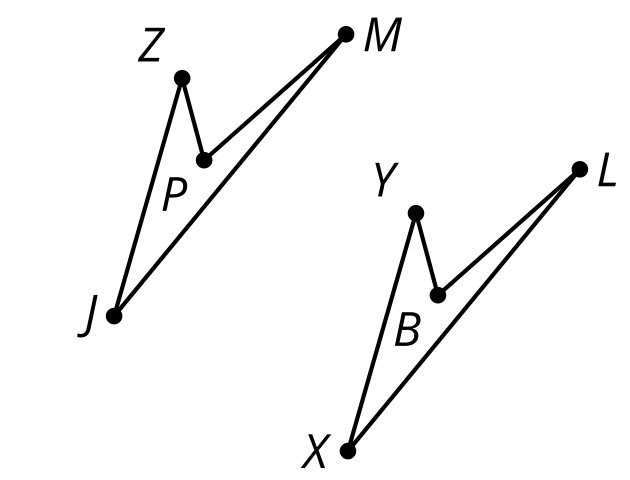
## Unit 2 Lesson 2: Congruent Parts, Part 2

### 1 Math Talk: Which Are Congruent? (Warm up)

#### Student Task Statement

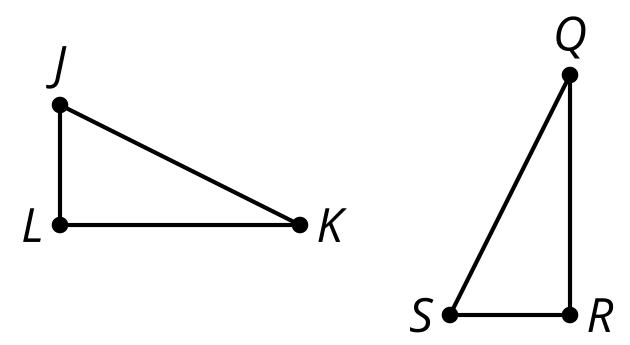
Each pair of figures is congruent. Decide whether each congruence statement is true or false.

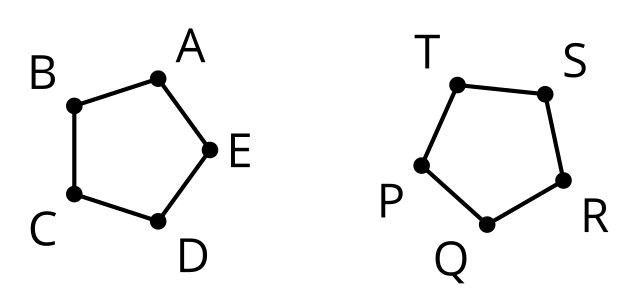




Triangle  is congruent to triangle .

Quadrilateral  is congruent to quadrilateral .





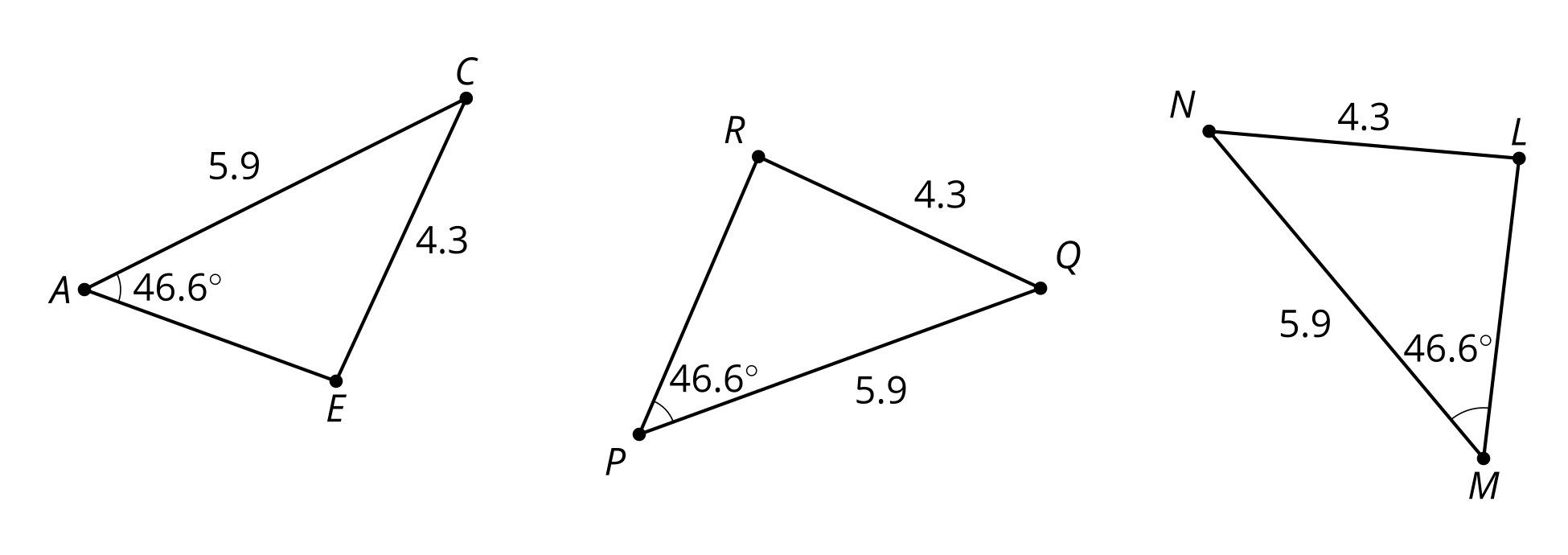
Triangle  is congruent to triangle .

Pentagon  is congruent to pentagon .

### 2 Which Triangles Are Congruent?

#### Student Task Statement

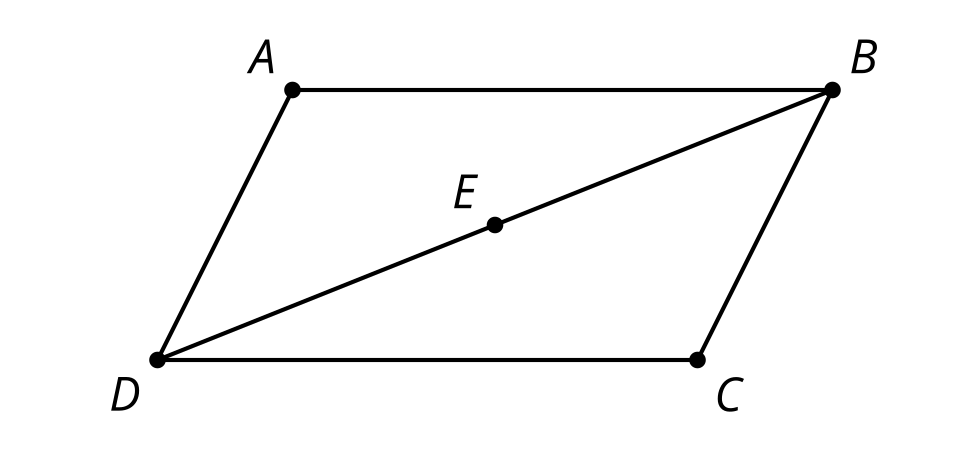
Here are 3 triangles.

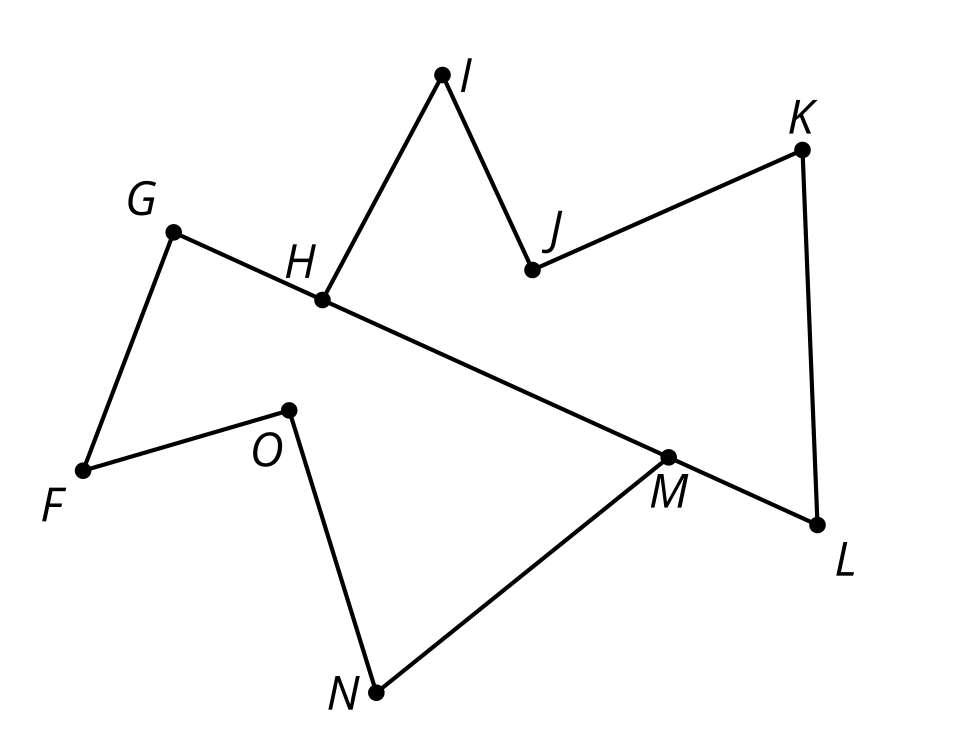


1. Triangle is congruent to which triangle? Explain your reasoning.
2. Show a sequence of rigid motions that takes triangle  to that triangle. Draw each step of the transformation.
3. Explain why there can’t be a rigid motion from triangle  to the other triangle.

### 3 Are These Parts Congruent?

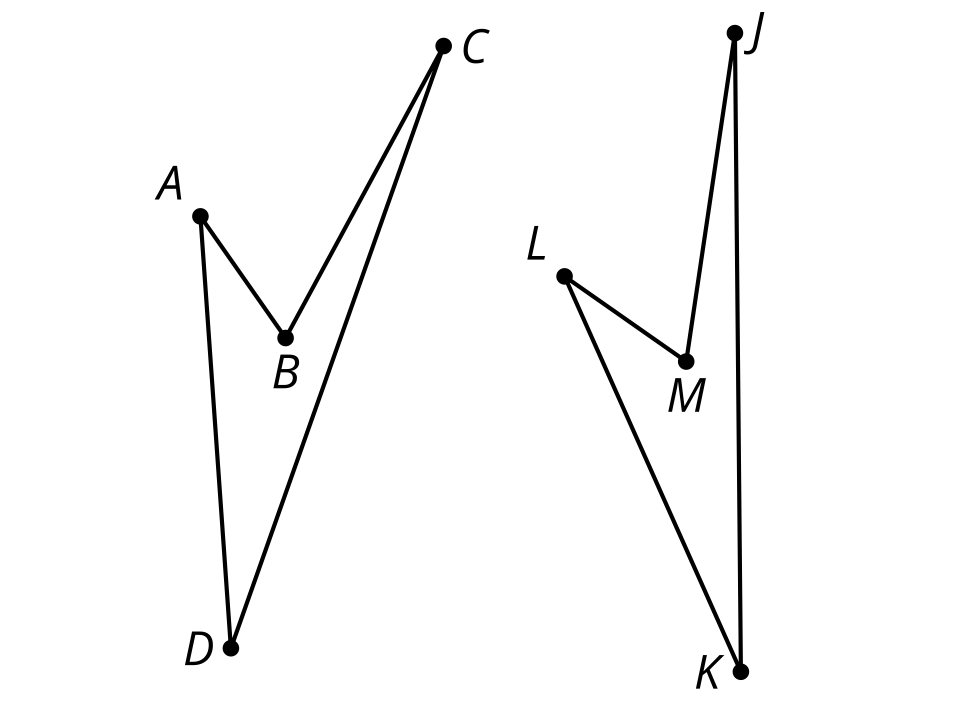
#### Student Task Statement





1. Triangle is a rotation of triangle around point by . Is angle congruent to angle ? If so, explain your reasoning. If not, which angle is congruent to?
2. Polygon is a reflection and translation of polygon . Is segment congruent to segment ? If so, explain your reasoning. If not, which segment is congruent to?
3. Quadrilateral is a rotation of polygon . Is angle congruent to angle ? If so, explain your reasoning. If not, which angle is congruent to?

#### Images for Activity Synthesis





© CC BY 2019 by Illustrative Mathematics®