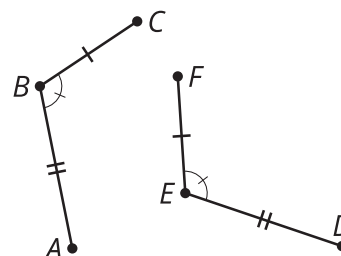


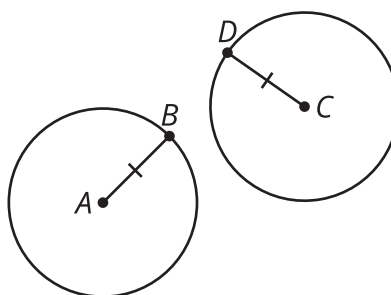
Lesson 5 Practice Problems

- Write a sequence of rigid motions to take figure ABC to figure DEF .



- Prove the circle centered at A is congruent to the circle centered at C .

$$AB = CD$$



- Which conjecture is possible to prove?
 - All quadrilaterals with at least one side length of 3 are congruent.
 - All rectangles with at least one side length of 3 are congruent.
 - All rhombuses with at least one side length of 3 are congruent.
 - All squares with at least one side length of 3 are congruent.

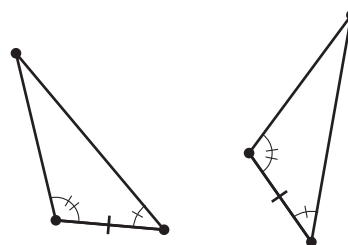
4. Match each statement using only the information shown in the pairs of congruent triangles.

A. The 2 sides and the included angle of one triangle are congruent to 2 sides and the included angle of another triangle.

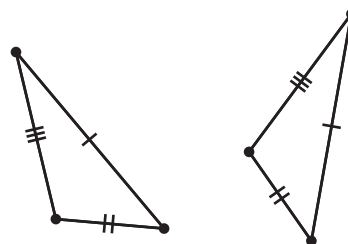
B. The 2 angles and the included side of one triangle are congruent to 2 angles and the included side of another triangle.

C. In the 2 triangles there are 3 pairs of congruent sides.

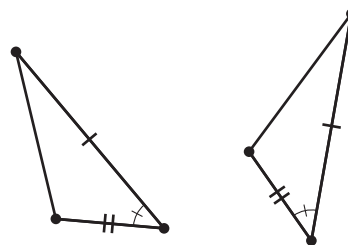
1.



2.

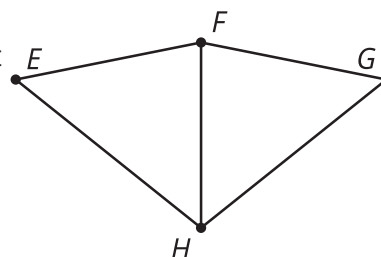


3.



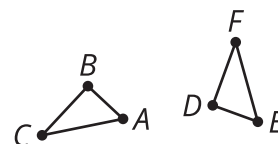
(From Unit 2, Lesson 4.)

5. Triangle HEF is the image of triangle HGF after a reflection across line FH . Write a congruence statement for the 2 congruent triangles.



(From Unit 2, Lesson 2.)

6. Triangle ABC is congruent to triangle EDF . So, Lin knows that there is a sequence of rigid motions that takes ABC to EDF .

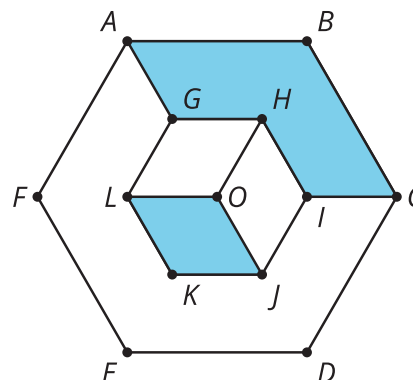


Select **all** true statements after the transformations:

- A. Angle A coincides with angle F .
- B. Angle B coincides with angle D .
- C. Angle C coincides with angle E .
- D. Segment BA coincides with segment DE .
- E. Segment BC coincides with segment FE .

(From Unit 2, Lesson 3.)

7. This design began from the construction of a regular hexagon. Is quadrilateral $JKLO$ congruent to the other 2 quadrilaterals? Explain how you know.



(From Unit 1, Lesson 22.)