1. Name the angle at the right in three different ways.

∠1

∠O

∠MOP

∠POM
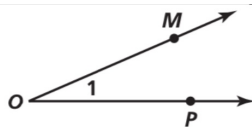
Name an angle or angles in the diagram described by each of the following.

2. complementary to ∠BOC ∠AOB

3. supplementary to ∠BOC ∠COE

4. adjacent and congruent to ∠AOC ∠DOC
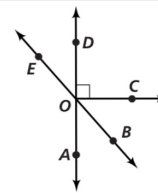
Find the measure of each angle.

5. ∠EBF 51° **6.** ∠EBA 90°

7. ∠DBF 17° **8.** ∠DBC 107°

9. ∠ABF 141° **10.** ∠DBF 68°

11. Name all acute angles in the figure.
∠DBE, ∠DBA, ∠FBC ∠EBF, ∠DBF 51°

12. Name all obtuse angles in the figure.
∠FBA, ∠DBC

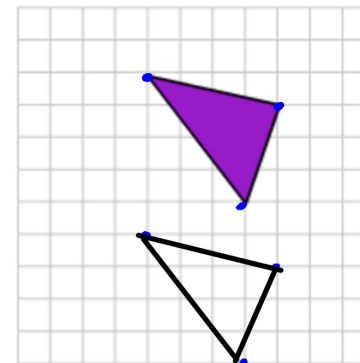**13.** Name all right angles in the figure.
∠EBA, ∠EBC
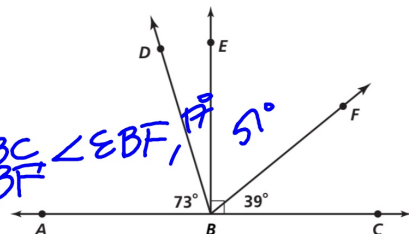
1. On the diagram below, choose three possible ways to connect Shay and Carrie's houses to the main cable line that runs along the street. Measure each connection and find which of the three locations uses the least amount of cable.
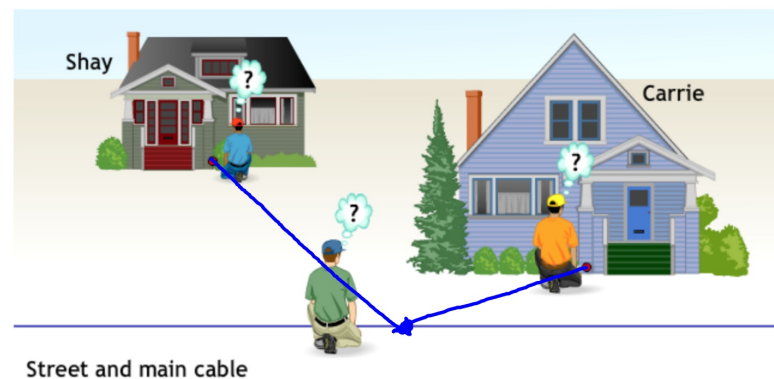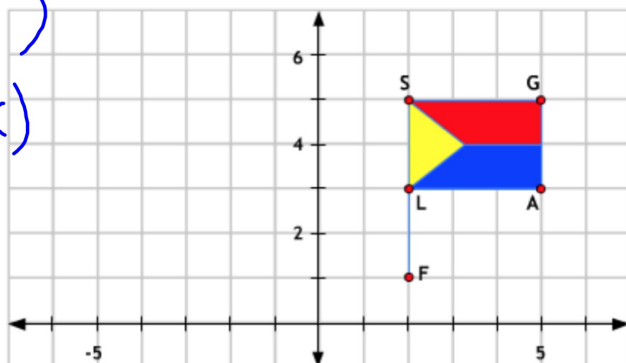
2. Reflect △ABC across the **y**-axis.
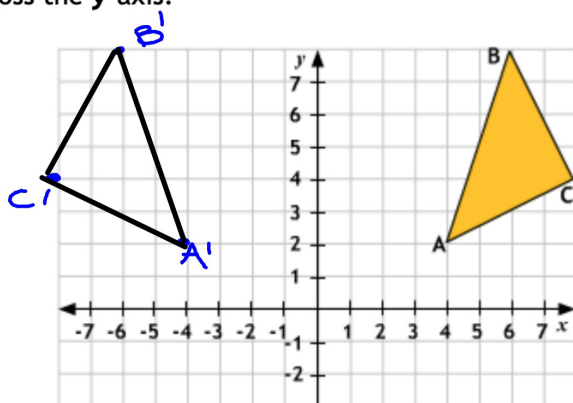
3. Translate the triangle down 5 units.

4. Rotate **FLAGS** 90° counterclockwise about the origin.

(x, y)

$(-y, x)$

5. In the reflection you performed in question 2, which shape is the image and which is the pre-image?

△ABC is the pre image

△A'B'C' is the image

6. What are two other names for rigid transformations?