Check Yourself   Name: _____

6.1.1 through 6.1.4

1. What are the 3 types of Rigid Transformations and what information must be provided to successfully complete each?

Name of Transformation	The information that must be provided to successfully complete the transformation.

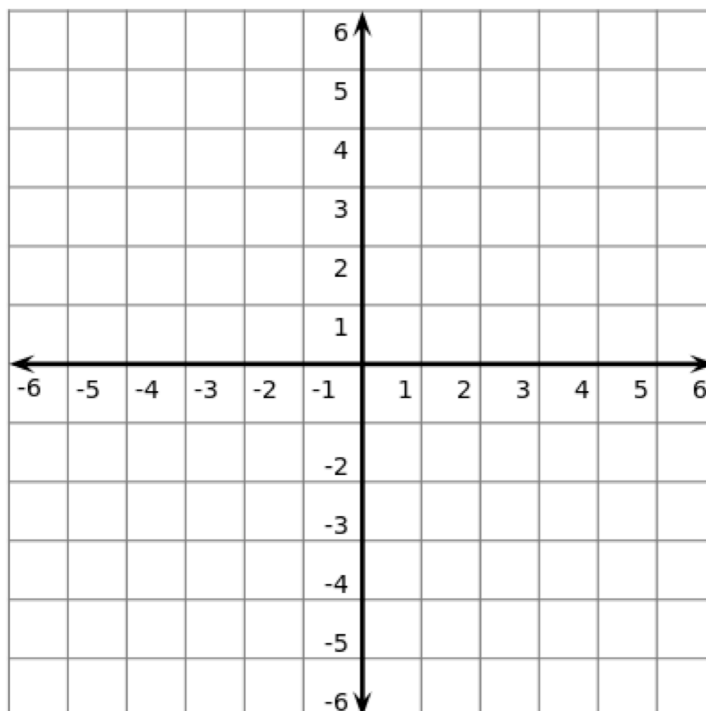2. Why are these transformations called "Rigid Transformations"?

_____

_____

3. What is the equation of the x-axis? _____

4. What is the equation of the y-axis? _____

5. Graph and label the following lines below. Labeling a line means writing the equation next to the line.

a. y = 5
b. x = -4
c. y = -5
d. x = 2

6. Record the following transformations, step by step, on the coordinate plane below. Follow the steps in order. Give the final coordinates of A, B, and C.

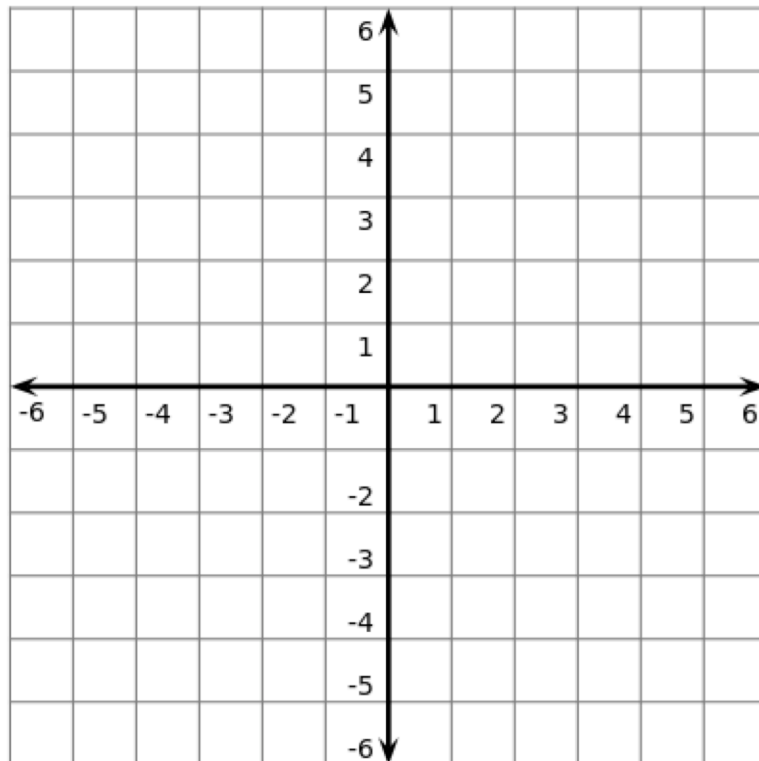Step 1: Plot, label, and connect the following points: A (-5, -3) B (-5, -5) C (-1, -5)

Step 2: Rotate the triangle 90° counter clockwise (CCW) about the point (-5, -3)

Step 3: Translate the triangle (x+1, y+5)

Step 4: Draw the line x=1 on the coordinate plane.

Step 5: Reflect the triangle over the line x = 1.

Step 6: What are the final coordinates of: A (,   )   B (,   )   C (,   )

7. A corner of a triangle is known as a _____.

8. The plural of your answer to #7 above is _____ .