

Gibbons Geometry
Reflections Rotations Translations Project

Name _____
Due Date: Thursday , December 19th

Part A:

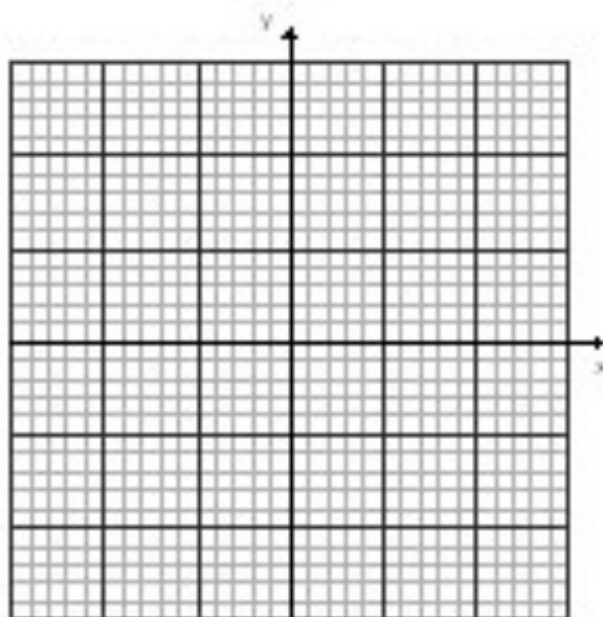
Triangle ABC is formed by the points
A (-5, 10.5) B (-5.5, -10) C(6, 3)

1. Draw your triangle on the graph to the right
2. Use the distance formula to find the triangle's three side lengths

AB:

BC:

AC:



3. In a different color, reflect ABC over the y axis to draw triangle XYZ.
4. What are the new coordinates of the triangle:

X: Y: Z:

5. Use the distance formula to find the triangle's three side lengths:

XY:

YZ:

XZ:

6. Are the side lengths the same after the triangle is reflected?

Gibbons Geometry
Reflections Rotations Translations Project

Name _____
Due Date: Thursday , December 19th

Part B:

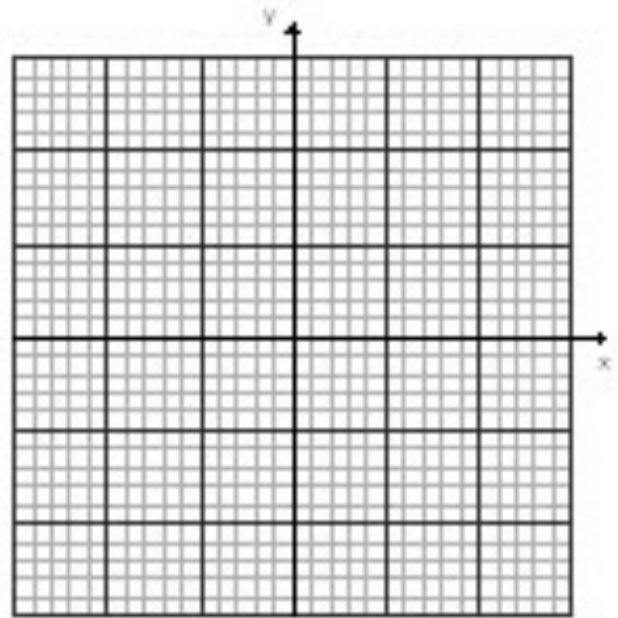
Triangle ABC is formed by the points
A (8.5, 4) B (5, -2.5) C(-3, -10)

1. Draw your triangle on the graph to the right
2. Use the distance formula to find the triangle's three side lengths

AB

BC

AC



3. In a different color, rotate ABC 90 degrees counterclockwise to draw triangle XYZ.
4. What are the new coordinates of the triangle:

X: Y: Z:

5. Use the distance formula to find the triangle's three side lengths:

XY

YZ

XZ

6. Are the side lengths the same after the triangle is rotated?

Gibbons Geometry
Reflections Rotations Translations Project

Name _____
Due Date: Thursday , December 19th

Part C:

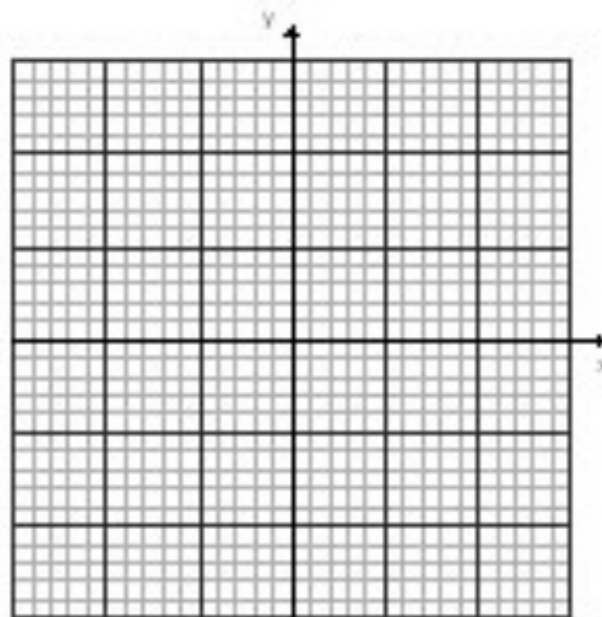
Triangle ABC is formed by the points
A (-3, 5.5) B (7.5, 10) C(2, -6)

1. Draw your triangle on the graph to the right
2. Use the distance formula to find the triangle's three side lengths

AB:

BC:

AC:



3. In a different color, slide ABC three units right and 4 units down to draw triangle XYZ.
4. What are the new coordinates of the triangle:

X: Y: Z:

5. Use the distance formula to find the triangle's three side lengths:

XY:

YZ:

XZ:

6. Are the side lengths the same after the triangle is translated?