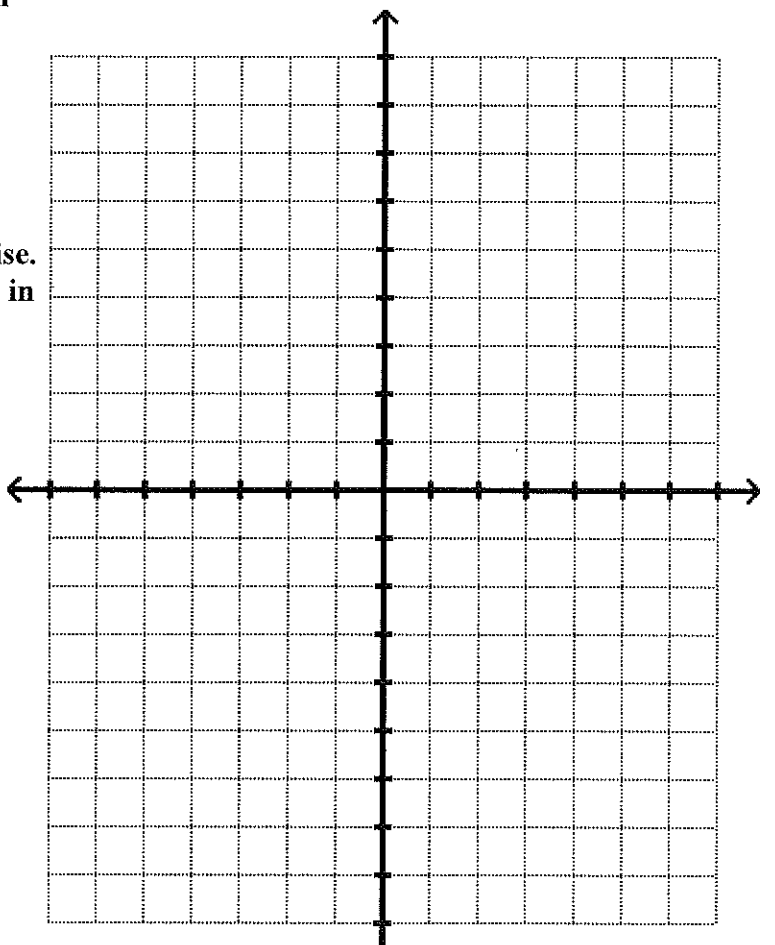
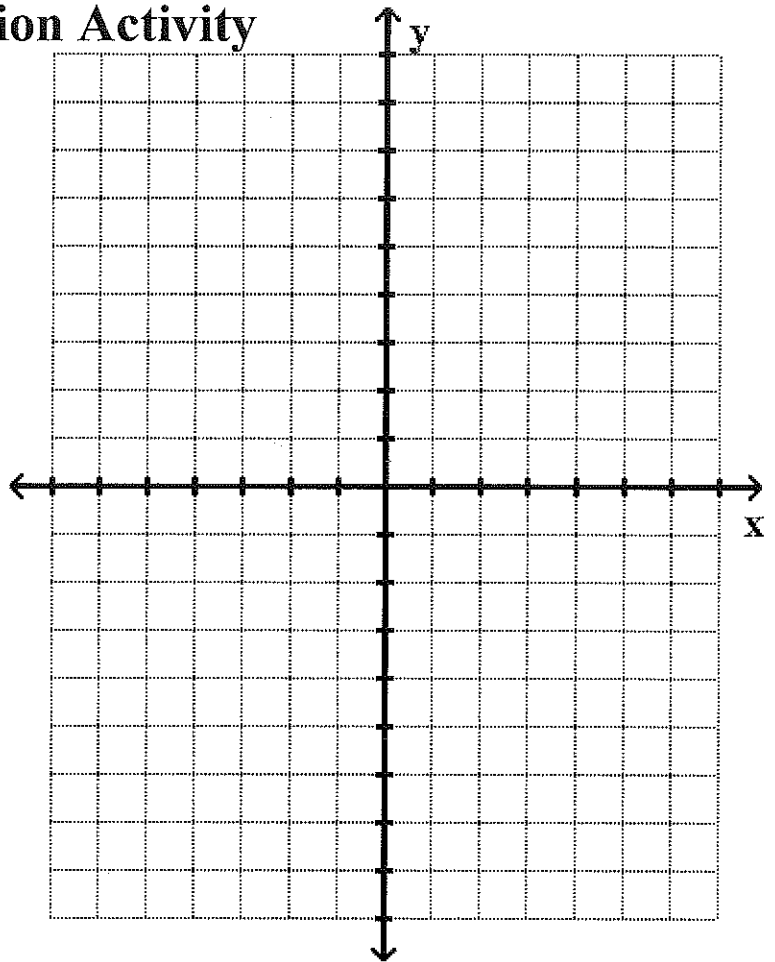


Rotation Activity

NOTE: Each tick mark is equivalent to one unit.

- 1) Graph $\triangle ABC$ on both the grids provided.
 $A(2, 7), B(2, 1), C(6, 1)$
- 2) Cut out the grid that does NOT have the labeled axis'.
- 3) Poke a tiny hole through the origin of the coordinate graph that you just cut out.
- 4) Put this coordinate graph directly on top of the one that has the x-axis and y-axis labeled.
- 5) Rotate the graph 90° counter clockwise. Your new triangle, $\triangle A'B'C'$, should be in Quadrant II. Use your pencil to keep the coordinate graph from moving.
- 6) Identify the coordinates of
 $A'(\quad , \quad), B'(\quad , \quad), C'(\quad , \quad)$
- 7) Using $\triangle ABC$, rotate it 180° counter clockwise. Your new triangle, $\triangle A''B''C''$, should be in Quadrant III. Use your pencil to keep the coordinate graph from moving.
- 8) Identify the coordinates of
 $A''(\quad , \quad), B''(\quad , \quad), C''(\quad , \quad)$
- 9) Using $\triangle ABC$, rotate it 270° counter clockwise. Your new triangle, $\triangle A'''B'''C'''$, should be in Quadrant IV. Use your pencil to keep the coordinate graph from moving.
- 10) Identify the coordinates of
 $A'''(\quad , \quad), B'''(\quad , \quad), C'''(\quad , \quad)$



11. Record the results from the activity into the table below...

	Pre-Image	Image	Rule
90° rotation	A (,) B (,) C (,)	A' (,) B' (,) C' (,)	$(x, y) \rightarrow (\quad , \quad)$
180° rotation	A (,) B (,) C (,)	A'' (,) B'' (,) C'' (,)	$(x, y) \rightarrow (\quad , \quad)$
270° rotation	A (,) B (,) C (,)	A''' (,) B''' (,) C''' (,)	$(x, y) \rightarrow (\quad , \quad)$

Class Rules:

90° rotation

Words:

Using Math Symbols:

180° rotation

Words:

Using Math Symbols:

270° rotation

Words:

Using Math Symbols: