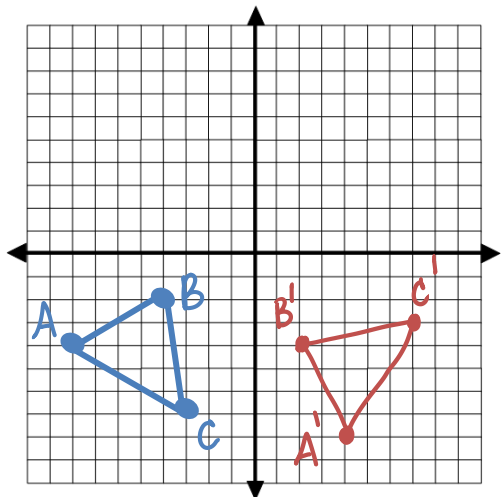


6.1 & 9.1-9.3 PRACTICE QUIZ

Name Key

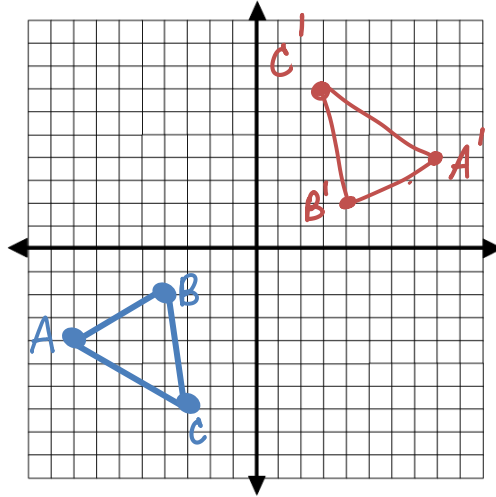
1. Rotate $\triangle ABC$ 90° about the origin.

Function Notation: $R_{(90^\circ, (0,0))}(x,y) \rightarrow (-y,x)$



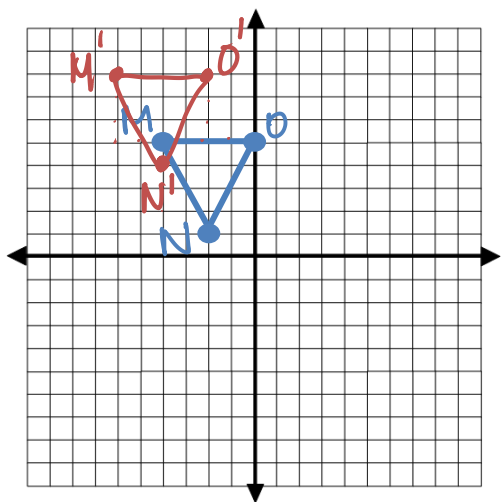
2. Rotate $\triangle ABC$ 180° about the point $(0,0)$

Function Notation: $R_{(180^\circ, (0,0))}(x,y) \rightarrow (-x,-y)$



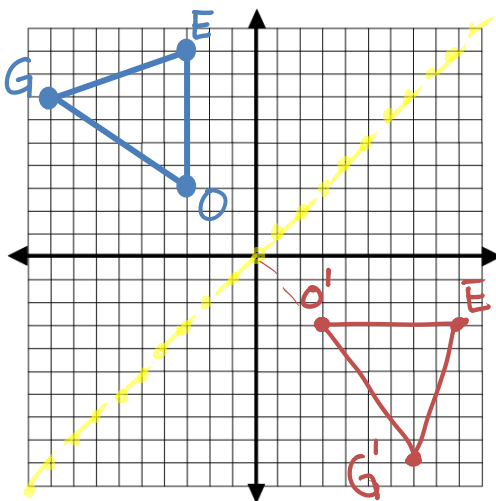
3. Perform the following translation:

$T(x,y) \rightarrow (x-2, y+3)$ left 2, up 3



4. Reflect the triangle over the line $y = x$.

Function Notation: _____



5. Find the sum of the interior angles of a convex 16-gon. $n=16$

$$S_I = (n-2) \cdot 180$$

$$S_I = (16-2) \cdot 180$$

$$S_I = 14 \cdot 180 = \boxed{2520^\circ}$$

6. Find the measure of each interior angle of a regular dodecagon. $n=12$

$$Ext \angle = \frac{360^\circ}{12}$$

$$Int \angle = 180 - 30$$

$$Ext \angle = 30^\circ$$

$$\boxed{Int \angle = 150^\circ}$$

7. Name the regular polygon that has a measure of each exterior angle of 40° .

$$40 = \frac{360}{n}$$

$$n = 9$$

$$\boxed{\text{nonagon}}$$