Reflections Practice   Name: _____
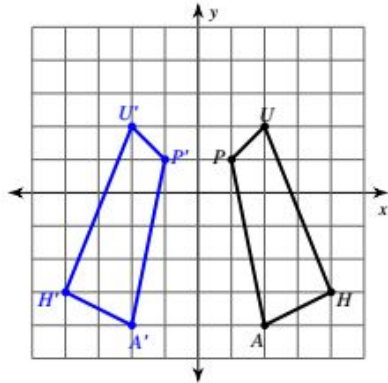
Graph the image using the transformation given, and give the algebraic rule as requested.

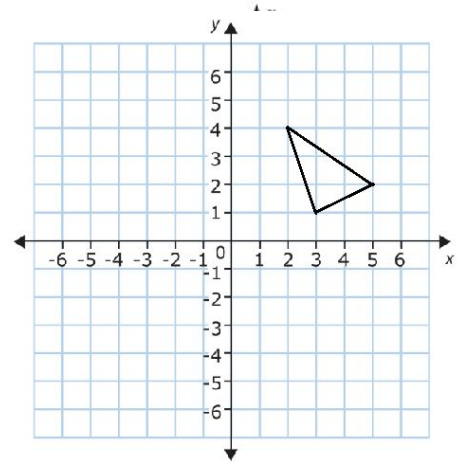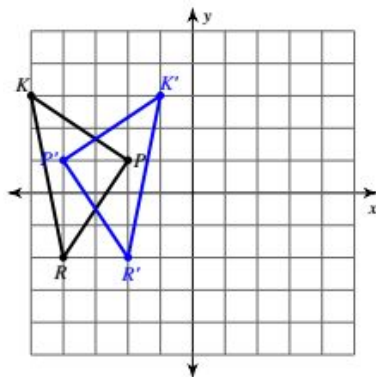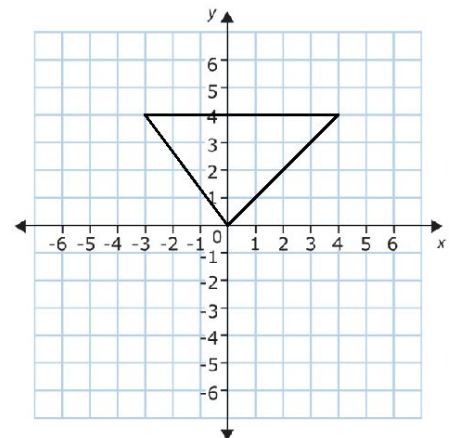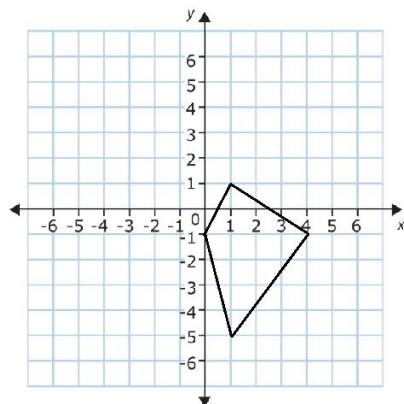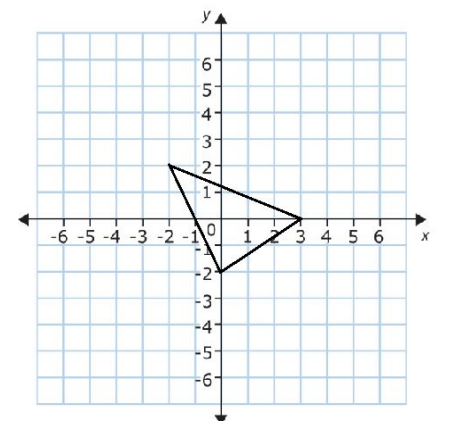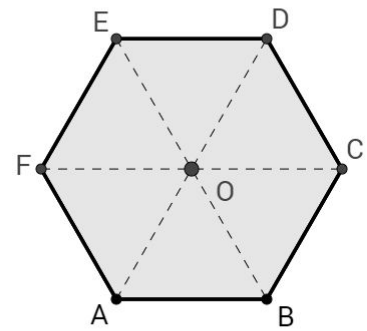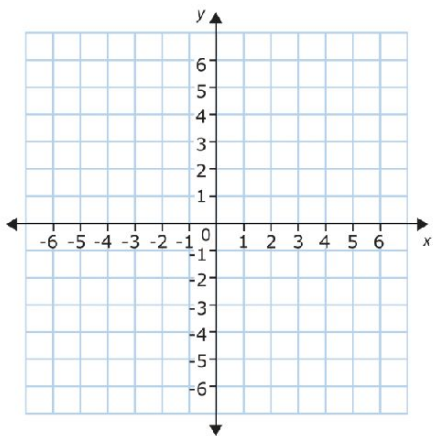|	
1. The graph below shows a reflection of ▢*UPAH*. What was the line of reflection? Line of reflection:	2. The points (2,4), (3,1), (5,2) are reflected over the *y*-axis. E' _____ F' _____ G' _____ Rule:
3. he graph below shows a reflection of △*KPR*. What was the line of reflection? Line of reflection:	4. △*PQR* if P(-3, 4), Q(4, 4) and R(0, 0) reflected with the rule. $(x,y) \rightarrow (x,-y)$. P' _____ Q' _____ R' _____ Describe the transformation:
5. ▢*VWXY*, where V(0, -1), W(1, 1), X(4, -1), and Y(1, -5), is reflected over the line $y = x$. **V'** _____ **W'** _____ **X'** _____ **Y'** _____	6. △*MAT*, where M(-2, 2), A(3, 0), and T(0, -2), is reflected over $y = 2$. M' _____ A' _____ T' _____

7. Examine the regular hexagon *ABCDEF*. What is the image of point D when reflected across $\overline{BE}$?

8. Is it possible to have a reflection that could also be described using a dilation? Explain your thoughts.

9. Is it possible to have a reflection that could also be described using a translation? Explain your thoughts.