

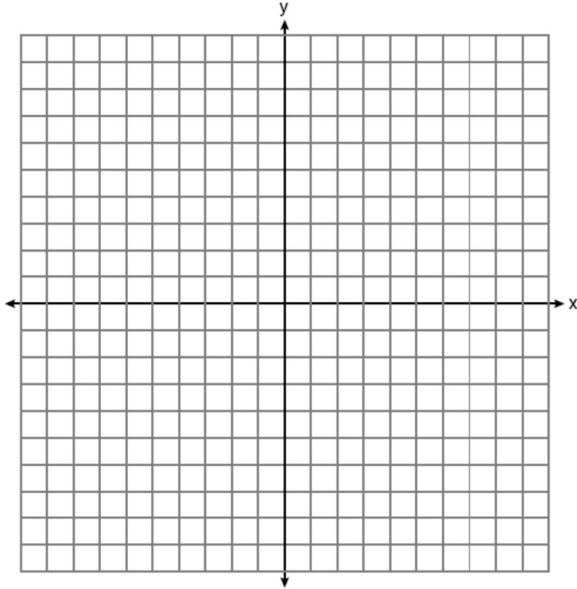
Name _____
Mr. Schlansky

Date _____
Geometry

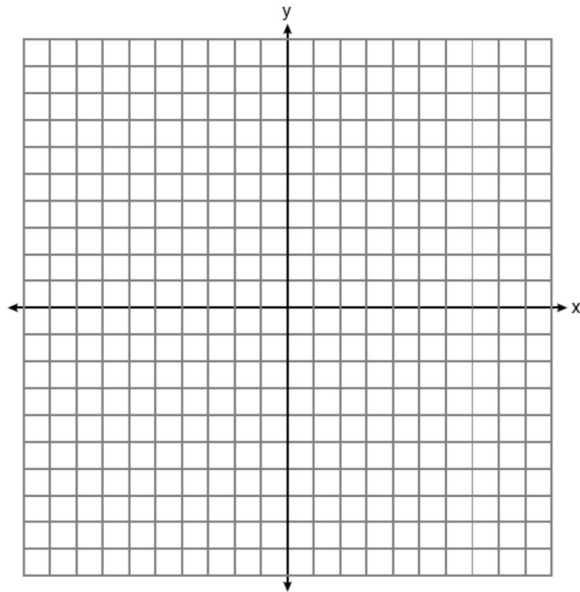


Point Reflections

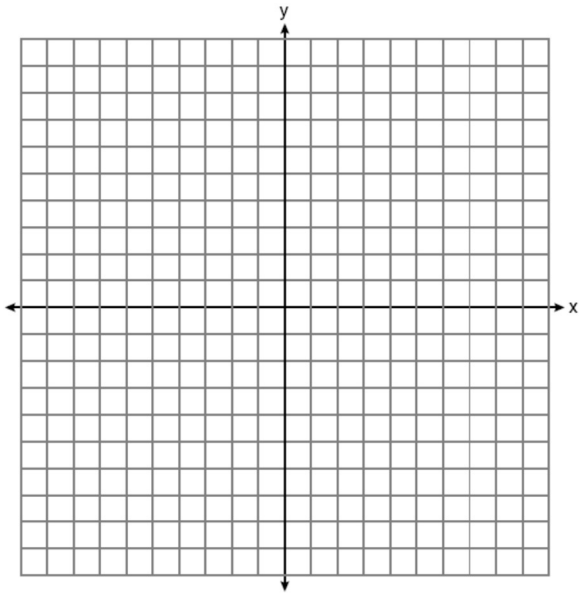
1. Triangle SUN has coordinates $S(0,6)$, $U(3,5)$, and $N(3,0)$. On the accompanying grid, draw and label $\triangle SUN$. Then, graph and state the coordinates of $\triangle S'U'N'$, the image of $\triangle SUN$ after a reflection through the origin.



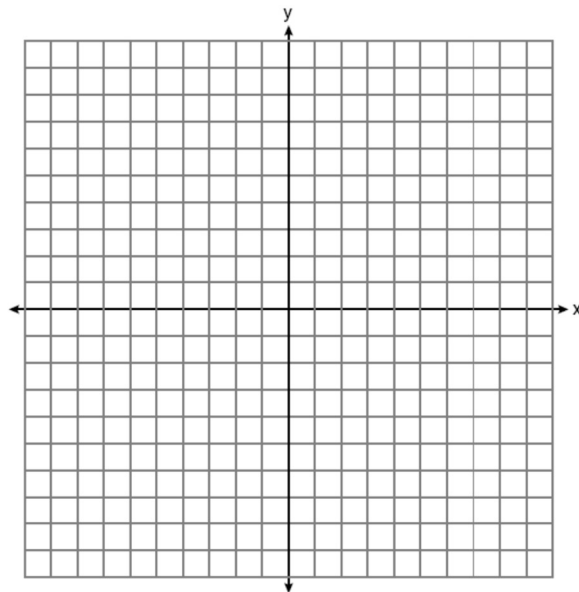
2. On the grid below, graph and label triangle ABC with vertices $A(3,1)$, $B(0,4)$, and $C(-5,3)$. On the same grid, graph and label triangle $A'B'C'$, the image of ABC after a reflection through the point $(1,-2)$.



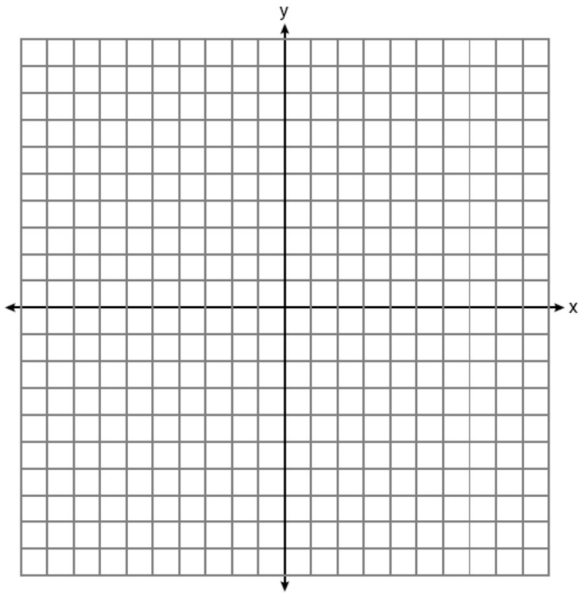
3. Triangle ABC has coordinates $A(2, 1)$, $B(6,1)$, $C(5,3)$. What is the image of this triangle after a reflection through the point $(-1,2)$. Graph both the image and the pre image.



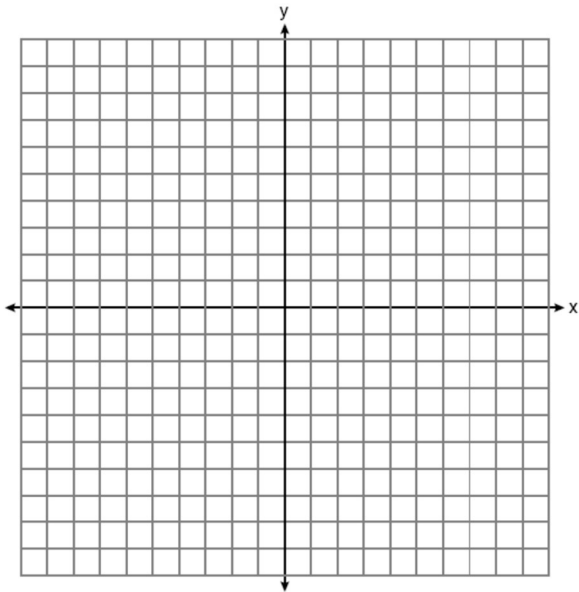
4. The coordinates of the vertices of $\triangle RST$ are $R(-2, 3)$, $S(4, 4)$, and $T(2, -2)$. Graph $\triangle RST$. Graph and label $\triangle R'S'T'$, the image of $\triangle RST$ after a reflection through the point $(-2,-3)$.



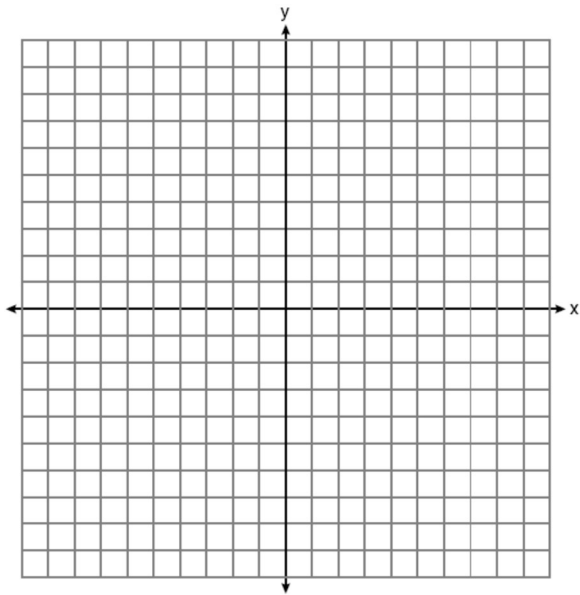
5. The coordinates of the vertices of $\triangle JKL$ are $J(8,-2)$, $K(6,1)$, and $L(-1,0)$. Graph $\triangle JKL$. Graph and label $\triangle J'K'L'$, the image of $\triangle JKL$ after a reflection through the point $(0,-2)$.



6. Triangle BIL has coordinates $B(-2,-5)$, $I(0,0)$, and $L(-5,-3)$. What is the image of this triangle after a reflection through the point $(2,2)$? Graph both the image and the pre image.



7. The coordinates of the vertices of $\triangle XYZ$ are $X(2,4)$, $Y(5,-2)$, and $Z(6,7)$. Graph $\triangle XYZ$. Graph and label $\triangle X'Y'Z'$, the image of $\triangle XYZ$ after a reflection through the point $(-1,1)$.



8. The coordinates of the vertices of $\triangle RAS$ are $R(8,-3)$, $A(2,-5)$, and $S(-1,2)$. Graph $\triangle RAS$. Graph and label $\triangle R'A'S'$, the image of $\triangle RAS$ after a reflection through the point $(0,-1)$.

