Name Schlansky
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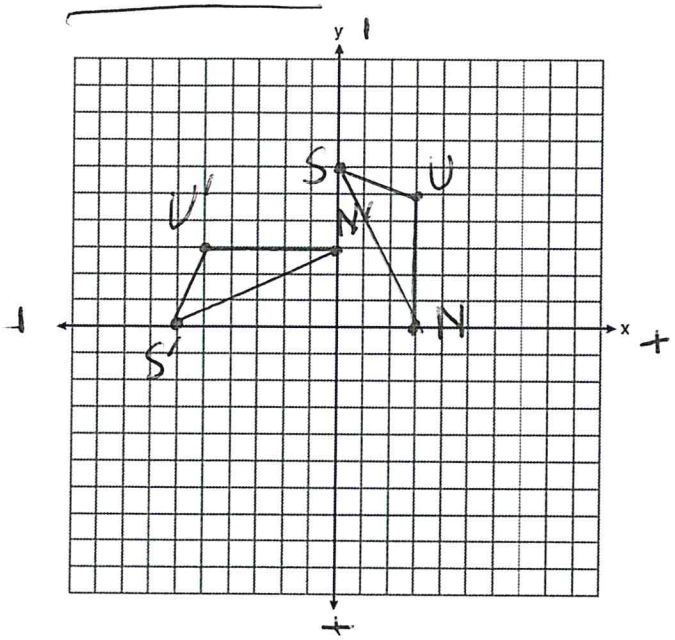
Date_____
Geometry

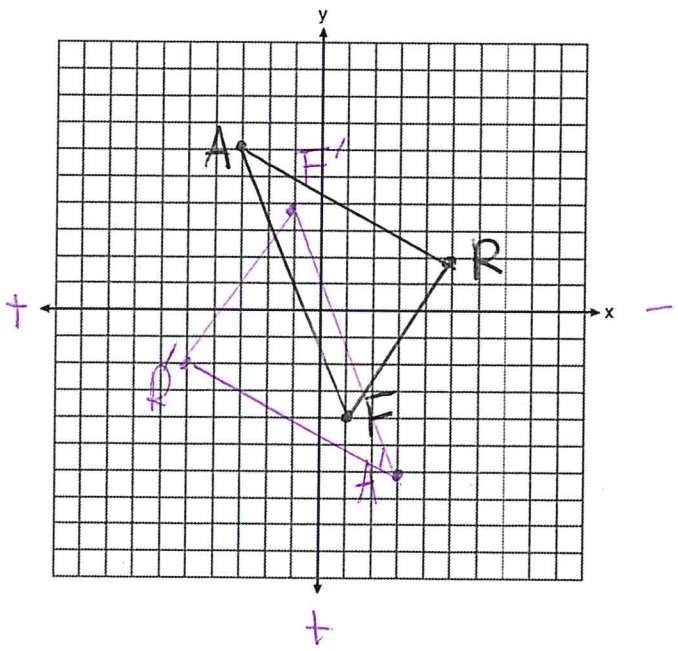
Rotations

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 counter-clockwise rotation of 90 centered at the origin.



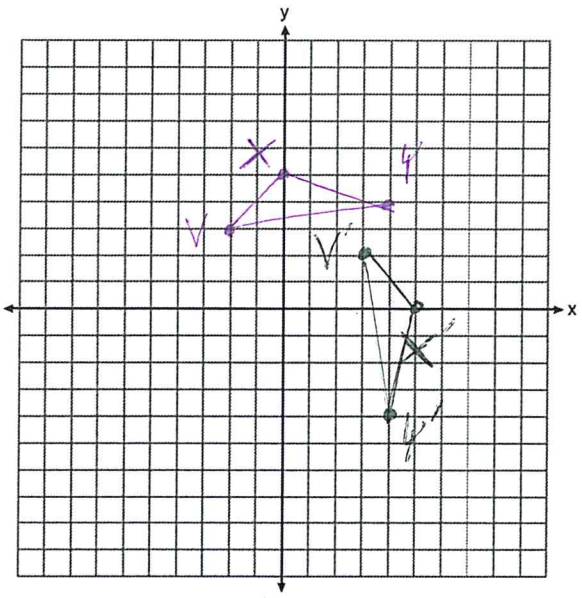
(0,-6) S'
(-5,3) U'
(0,3) N'

2. Triangle *ARF* has coordinates *A*(-3,6), *R*(5,2), and *F*(1,-4). On the accompanying grid, draw and label ΔARF. Then, graph and state the coordinates of $\Delta A'R'F'$, the image of ΔARF after a counter-clockwise rotation of 180 centered at the origin.



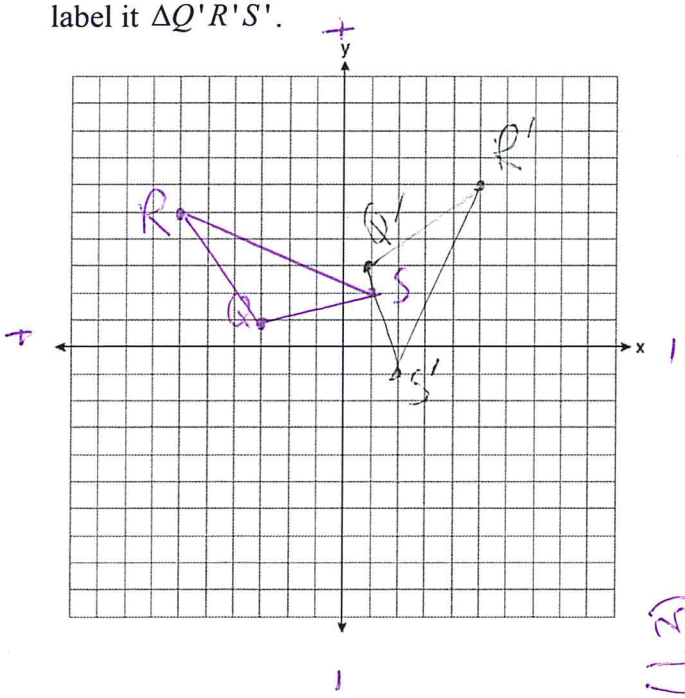
F' (-1,4)
R' (-5,-2)
A' (3,-6)

3. On the accompanying set of axes, graph ΔVXY if it is the image of $V(-2,3)$, $X(0,5)$, and $Y(4,4)$ after a counter-clockwise rotation of 270 centered at the origin.



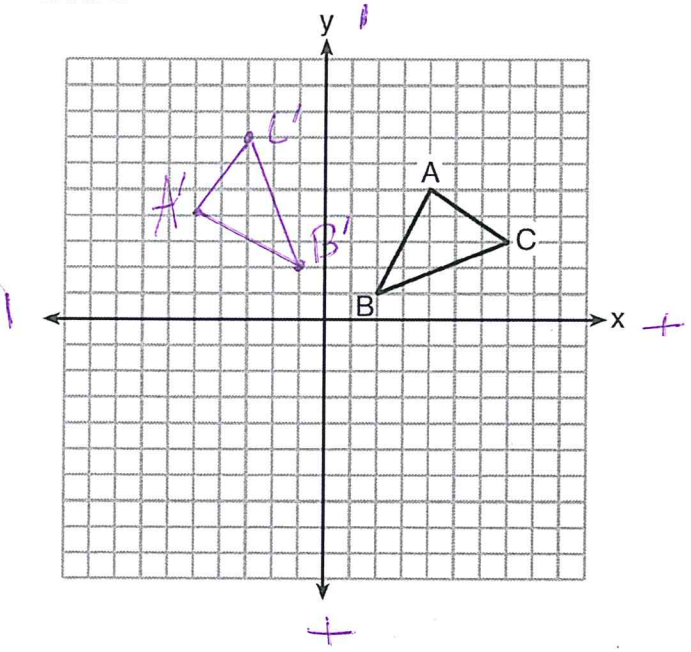
$X'(5,0)$
$Y'(4,-4)$
$V'(3,2)$

4. The coordinates of ΔQRS are $Q(-3,1)$, $R(-6,5)$, and $S(1,2)$. Graph and state the coordinates of the image of ΔQRS after a clockwise rotation of 90 centered at the origin and label it $\Delta Q'R'S'$.

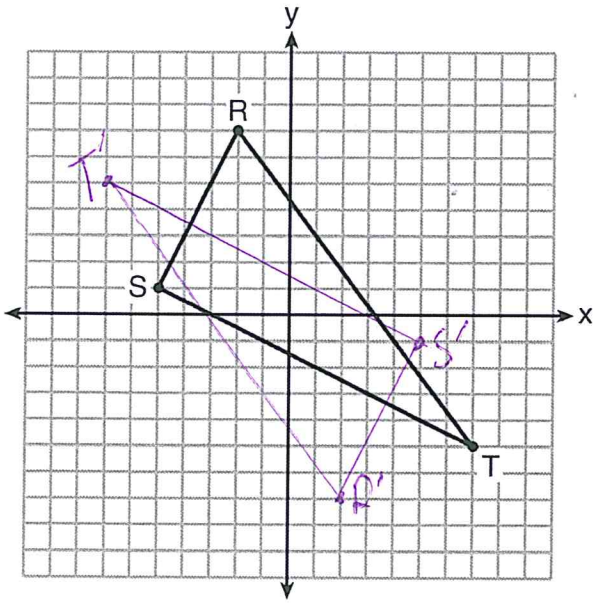


$Q'(1,3)$
$R'(5,6)$
$S'(2,-1)$

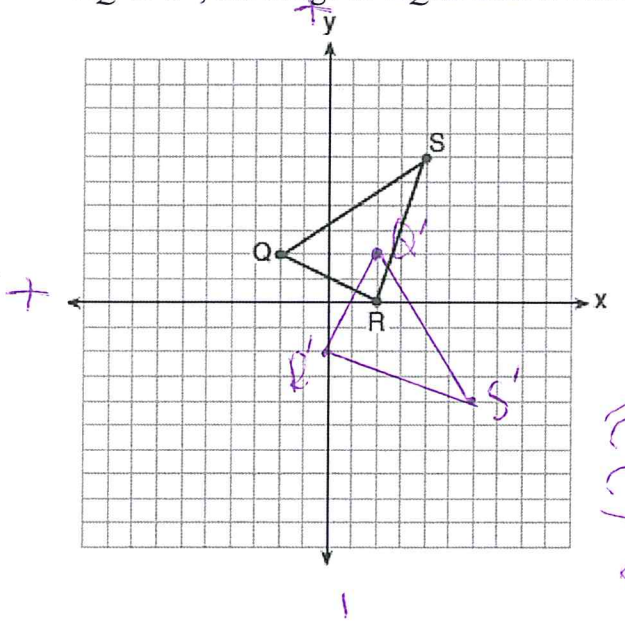
5. In the diagram below, $\triangle ABC$ is graphed with A(4,5), B(2,1), and C(7,3). Graph and state the coordinates of the image of $\triangle ABC$ after a clockwise rotation of 270 centered at the origin and label it $\Delta A'B'C'$.



6. Triangle *RST* is graphed on the set of axes below with R(-2,7), S(-5,1), and T(7,-5). Graph the image of ΔRST after a clockwise rotation of 180 centered at the origin and label it $\Delta R'S'T'$.



7. Triangle QRS is graphed on the set of axes below. Graph and state the coordinates of $\Delta Q'R'S'$, the image of ΔQRS after a counter-clockwise rotation of 270 centered at the origin



8. Quadrilateral $ABCD$ is graphed on the set of axes below. State the coordinates of quadrilateral $A'B'C'D'$, the image of quadrilateral $ABCD$ after a clockwise rotation of 270 centered at the origin.