

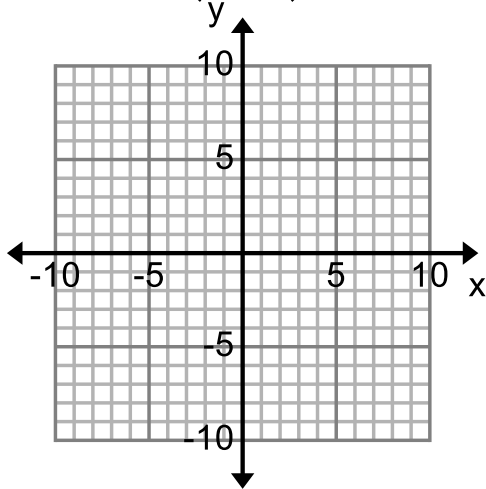
Name: _____ Period: _____

Score: _____ / _____ %

HW 8-3 HONORS: More Rotations

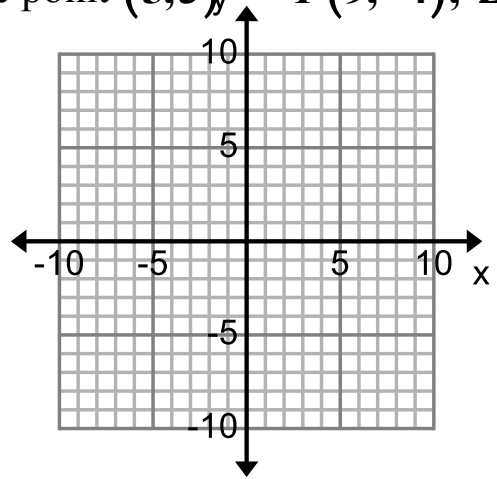
Complete the following rotations, and state the coordinates of the vertices of the image

1. $X(-6,5)$ rotated 90° counterclockwise around the point $(-1,4)$



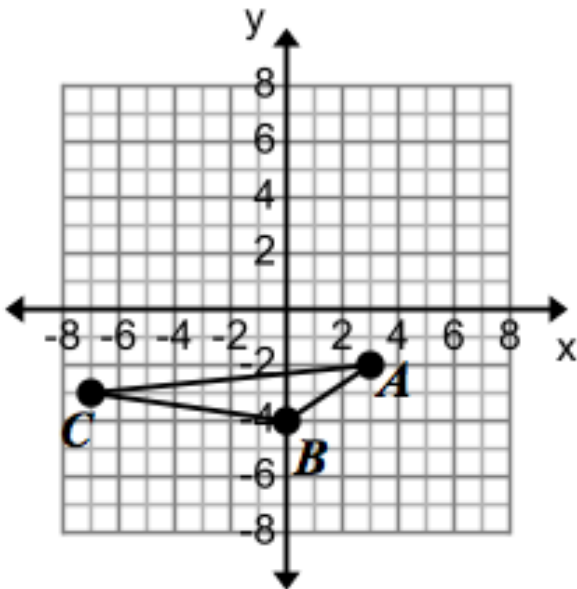
X' _____

2. Line segment \overline{YZ} 180° around the point $(5,3)$, $Y(9,-4)$, $Z(8,5)$



Y' _____ Z' _____

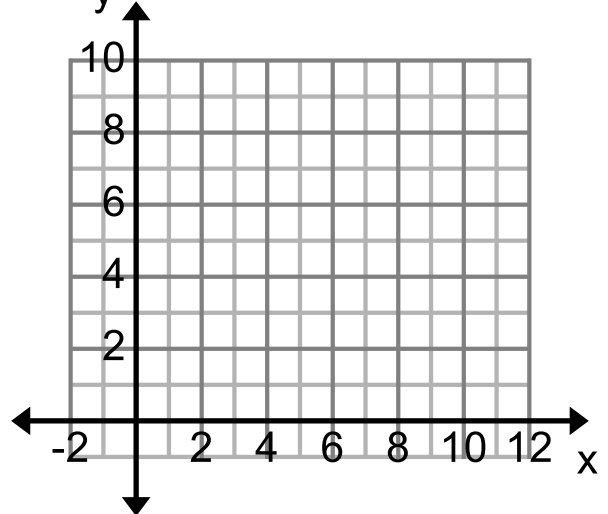
3. Triangle ABC 90° clockwise around the origin



New Vertices _____

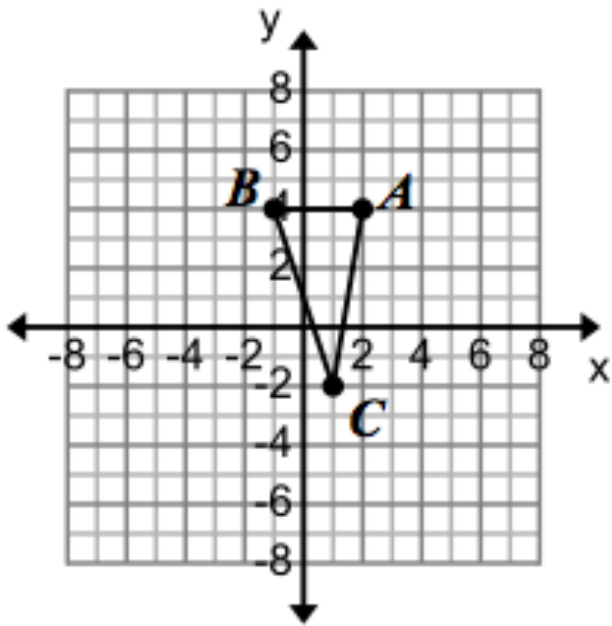
4. Triangle JKL 90° counterclockwise around the point $(3,1)$

$J(6,-1)$, $K(11,1)$, $L(9,3)$



New Vertices _____

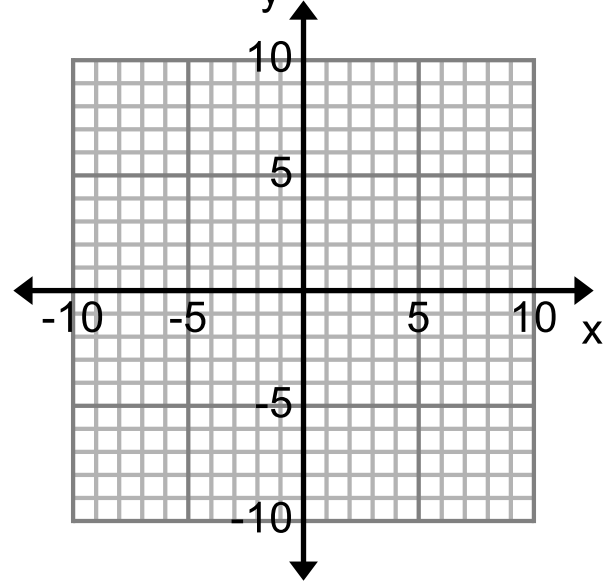
5. Triangle ABC rotated around the origin 270° counterclockwise



New Vertices _____

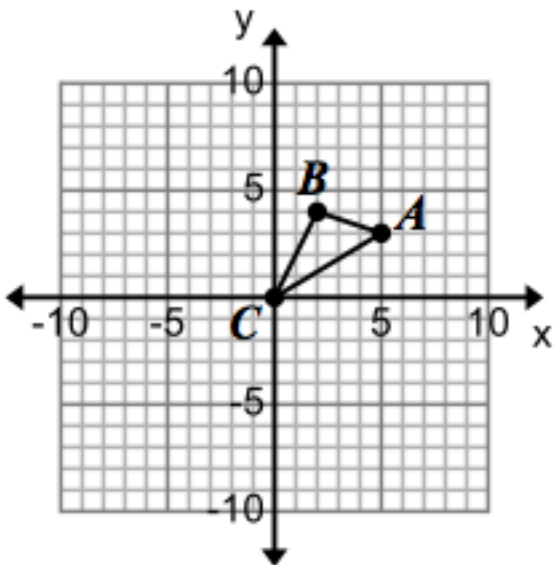
6. Triangle DEF 90° clockwise around point $(-2, -1)$

$D(5,3)$, $E(2,4)$, $F(0,0)$



New Vertices _____

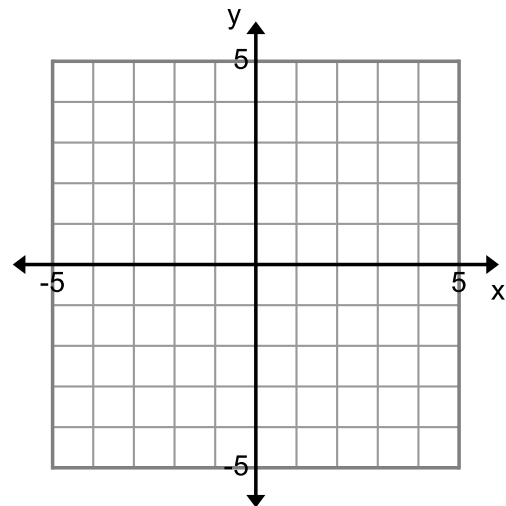
7. Triangle ABC 180° around the point $(0,2)$



New Vertices _____

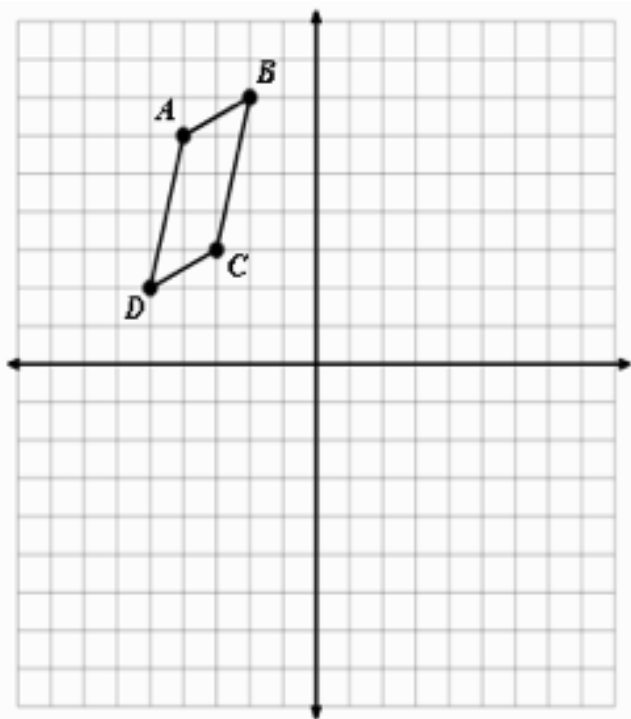
8. Triangle MNP 90° around the origin counterclockwise

$M(-3,-4)$, $N(0,0)$, $P(-1,2)$



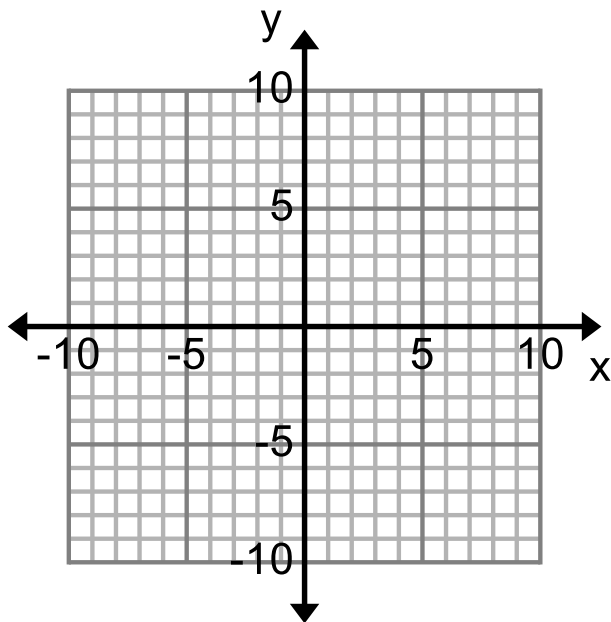
New Vertices _____

9. Quadrilateral $ABCD$ 90° counterclockwise around the point $(-2, 2)$



New Vertices _____

10. Quadrilateral $WXYZ$ 90° clockwise around the point $(-2, 6)$
 $W(2, 5)$, $X(5, 4)$, $Y(6, 1)$, $Z(4, -1)$



New Vertices _____