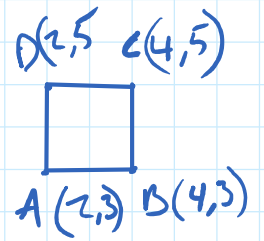
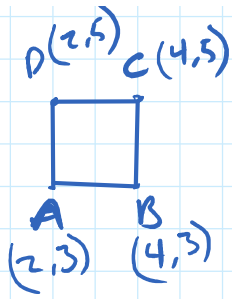


Quiz Review!

Graph the quadrilateral ABCD with vertices $A(2, 3)$, $B(4, 3)$, $C(4, 5)$, $D(2, 5)$, and its image after the translation.

$\langle 3, 2 \rangle$

$\langle 4, -2 \rangle$



(2?)

Find the component form of the vector that translates $P(3, 7)$ to P' .

$P'(1, 6)$

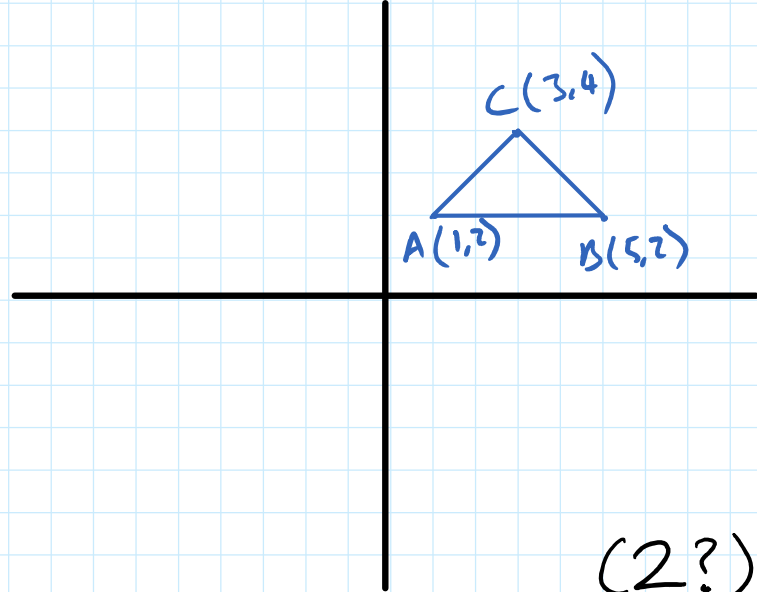
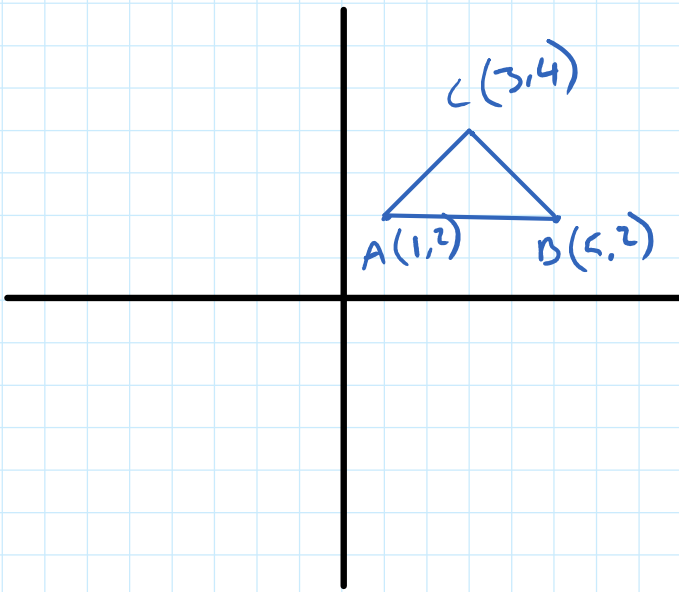
$P'(8, -1)$

(2?)

Graph the polygon with the given vertices and its image after a reflection in the given line.

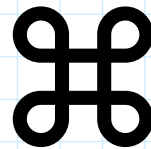
$A(1, 2), B(5, 2), C(3, 4)$; y-axis

~~$R(0,0), S(3, 4), T(0, 8)$; $X=-1$~~



Determine whether the figure has rotational symmetry. If so, describe any rotations that map the figure onto itself.

D

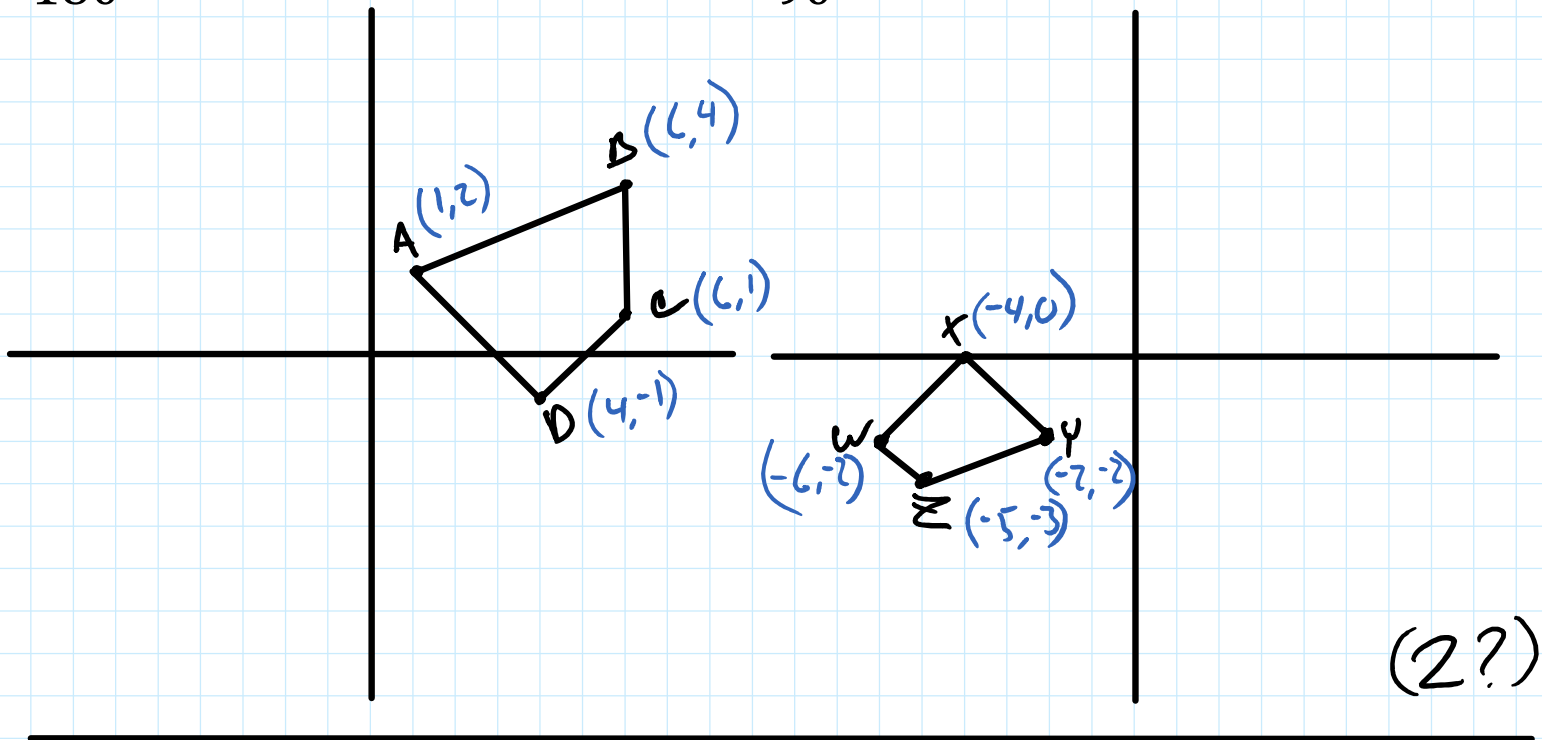


(2?)

Graph the polygon's image after a rotation of the given number of degrees clockwise about the origin.

180°

90°



10 Total ?'s

Quiz 4.1-4.3 pg.

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Coordinate Rules for Reflections

- If (a, b) is reflected in the x -axis, then its image is the point $(a, -b)$.
- If (a, b) is reflected in the y -axis, then its image is the point $(-a, b)$.
- If (a, b) is reflected in the line $y = x$, then its image is the point (b, a) .
- If (a, b) is reflected in the line $y = -x$, then its image is the point $(-b, -a)$.

Coordinate Rules for Rotations about the Origin

Coordinate Rules for Rotations about the Origin

When a point (a, b) is rotated counterclockwise about the origin, the following are true.

- For a rotation of 90° ,
 $(a, b) \rightarrow (-b, a)$.
- For a rotation of 180° ,
 $(a, b) \rightarrow (-a, -b)$.
- For a rotation of 270° ,
 $(a, b) \rightarrow (b, -a)$.

