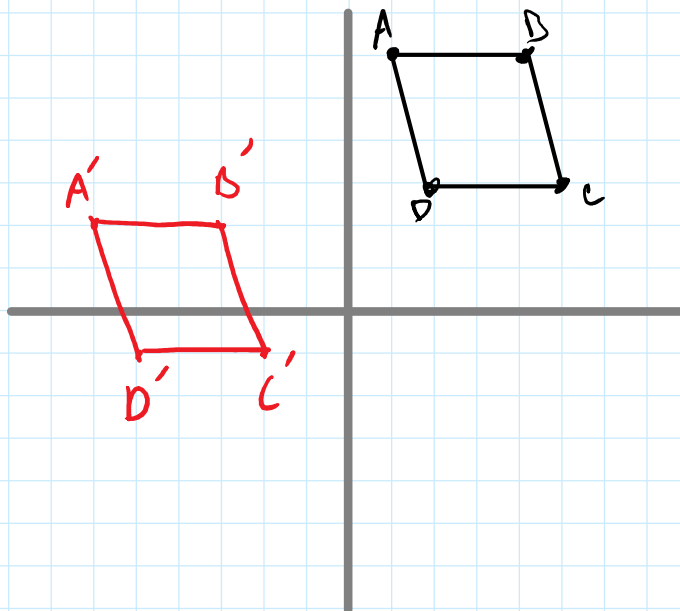


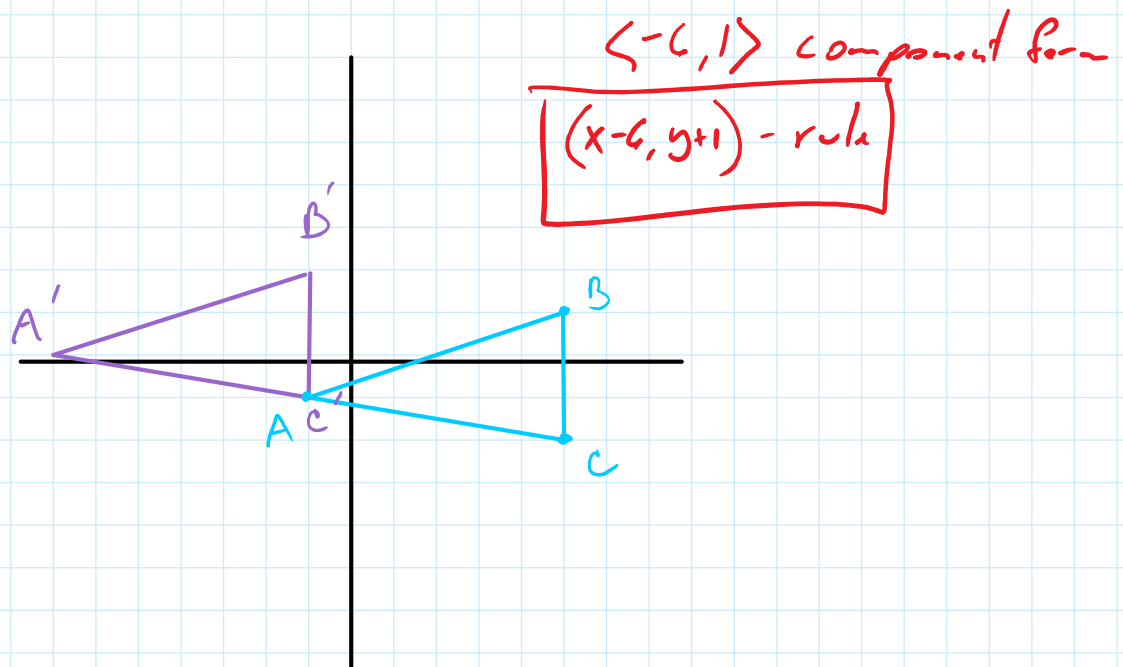
Test Review

Use the given rule to translate the coordinates of Quadrilateral ABCD, draw and label the image of Quadrilateral A'B'C'D' $\langle -7, -4 \rangle$



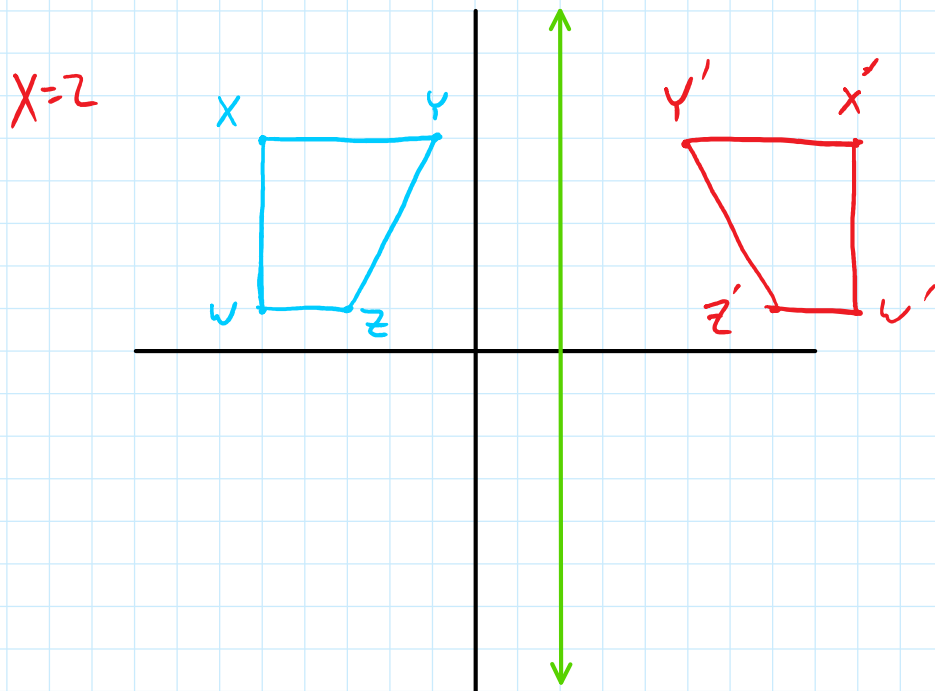
(2)

Write a rule for the translation of the preimage ABC to A'B'C'



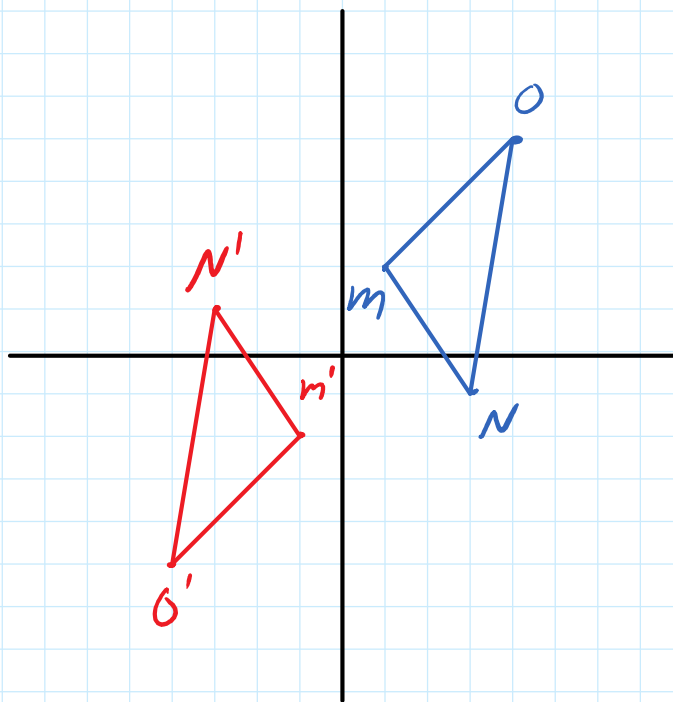
(2)

Graph the polygon's image after a reflection in the given line. $x=2$



(2)

Graph the polygon with the given vertices and its image after a rotation of the given number of degrees about the origin.



$$(a, b) \rightarrow (-a, -b)$$

$$M(1,2), N(3,-1), O(4,5); 180^\circ$$

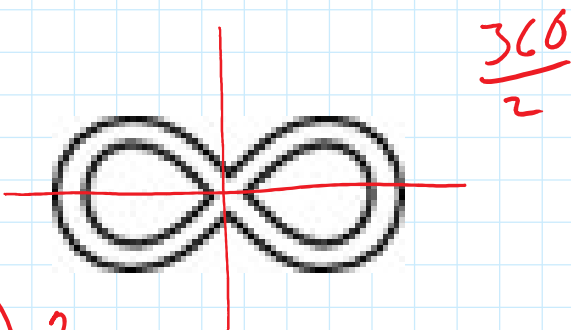
$$m(1,2) \rightarrow m'(-1,-2)$$

$$N(3,-1) \rightarrow N'(-3,1)$$

$$O(4,5) \rightarrow O'(-4,-5)$$

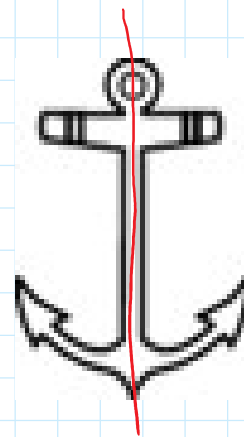
(2)

For the following problems: a) how many lines of symmetry does the figure have? b) How many degrees of rotational symmetry does the shape have?



a) 2

b) 180° rotational sym.

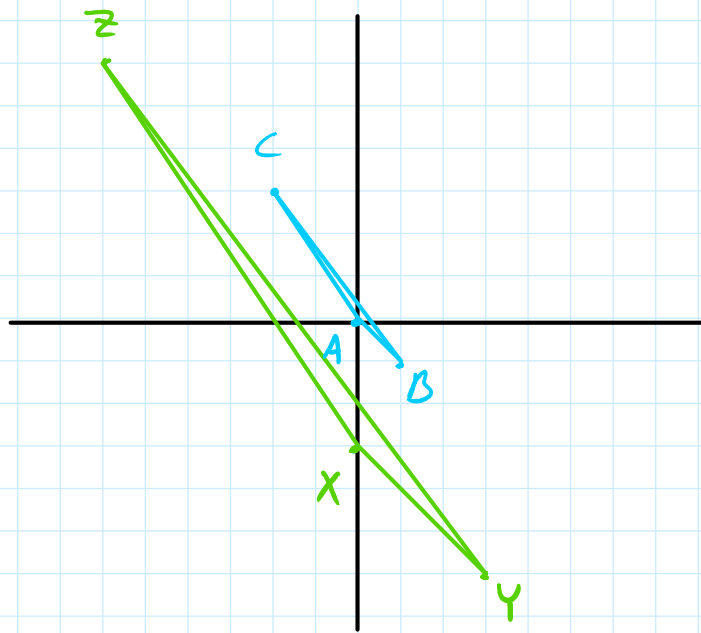


a) 1

b) no rotational sym (3)

Determine whether the polygons with the given vertices are congruent, similar, or neither.

$A(0,0)$, $B(1,-1)$, $C(-2,3)$
 $X(0,-3)$, $Y(3,-6)$, $Z(-6,6)$



(2)

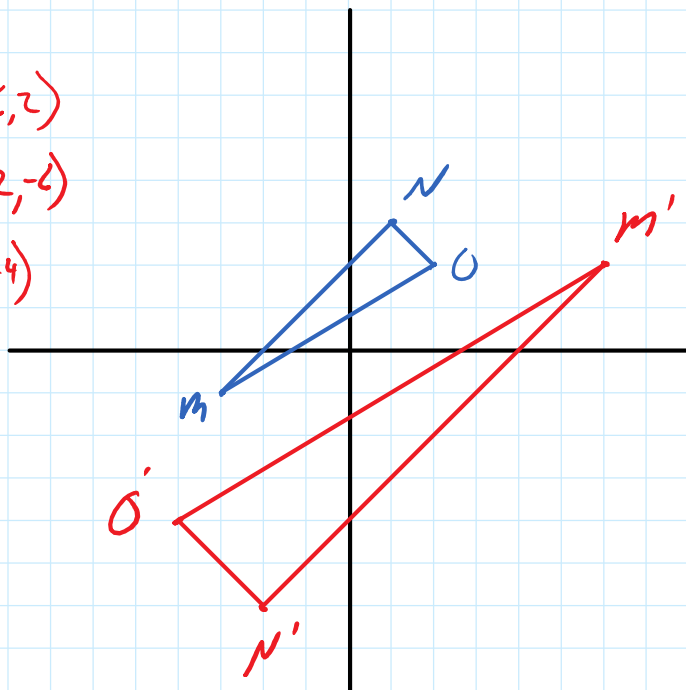
Graph $\triangle MNO$ with vertices $M(-3,-1)$, $N(1,3)$, $O(2,2)$ and its image after a dilation with scale factor k .

$k = -2$

$$M(-3,-1) \rightarrow M'(-3 \cdot -2, -1 \cdot -2) = (6, 2)$$

$$N(1,3) \rightarrow N'(1 \cdot -2, 3 \cdot -2) = (-2, -6)$$

$$O(2,2) \rightarrow O'(2 \cdot -2, 2 \cdot -2) = (-4, -4)$$



(2)

Describe a similarity transformation that maps the preimage $\triangle ABC$ to the image $\triangle A'B'C'$. reflect in x $(a,b) \rightarrow (a,-b)$

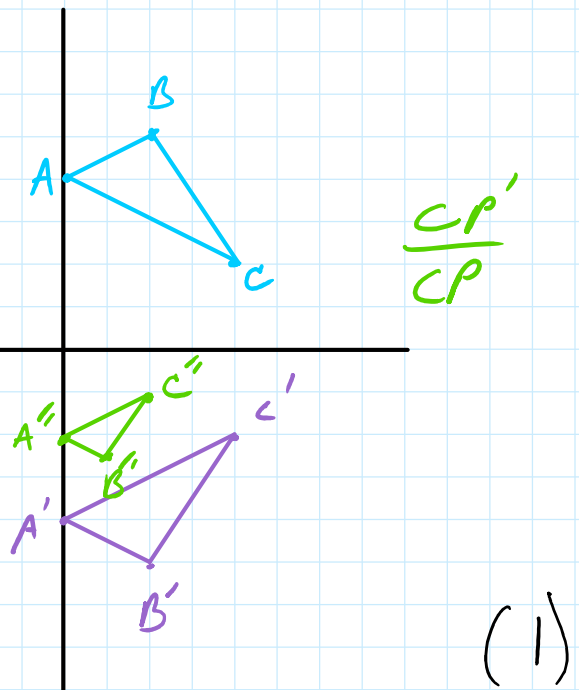
$$A(0,4) \rightarrow A'(0,-4) \rightarrow A''(0 \cdot \frac{1}{2}, -4 \cdot \frac{1}{2}) = (0,-2)$$

$$B(2,5) \rightarrow B'(2,-5) \rightarrow B''(2 \cdot \frac{1}{2}, -5 \cdot \frac{1}{2}) = (1,-2\frac{1}{2})$$

$$C(4,2) \rightarrow C'(4,-2) \rightarrow C''(4 \cdot \frac{1}{2}, -2 \cdot \frac{1}{2}) = (2,-1)$$

$$\frac{\text{New}}{\text{old}} = k = \frac{2}{4} = \frac{1}{2}$$

reflect in x -axis
dilation $k = \frac{1}{2}$



16 total Questions

Good Luck, Study!!!