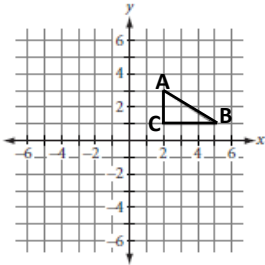


Your work:**Corrected work:**

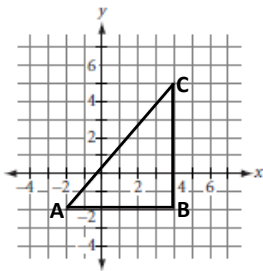
1. Draw the image according to the rule given and identify the type of transformation as completely as possible.

$$(x, y) \rightarrow (-x, -y)$$

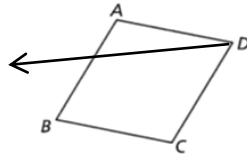


2. Draw the image according to the rule given and identify the type of transformation as completely as possible.

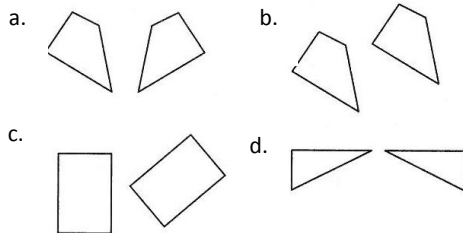
$$(x, y) \rightarrow (-y, -x)$$



3. Translate the preimage below using the given translation vector.

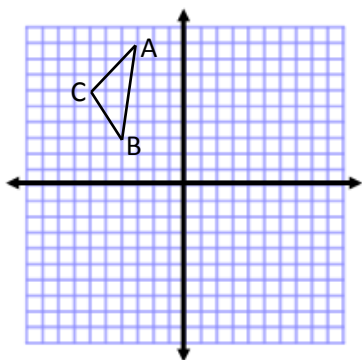


4. Name the type of transformation occurring in each preimage/image pairing.

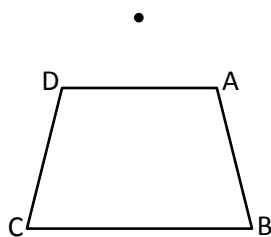


5. a) Move all points up 3 and left 5 $(x, y) \rightarrow (\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$
 b) Reflect all points across the x -axis $(x, y) \rightarrow (\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$
 c) Rotate all points 180° clockwise $(x, y) \rightarrow (\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

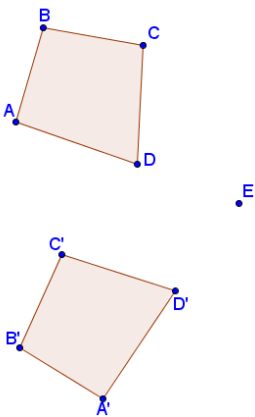
6. $R_{O, 180^\circ \text{CW}} (\triangle ABC)$



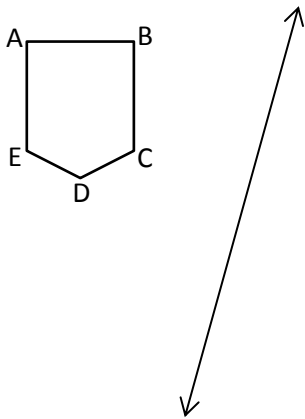
7. Draw a dilation of the given preimage using a scale factor of 2 and the given center of dilation.



8. The diagram below shows a figure that has been transformed in some way. Describe this transformation as completely as possible.



9. Reflect the given figure over the provided line of reflection.



10. a. Name the intersection of ABM and \overrightarrow{OA} . _____

b. Name a segment on ABM. _____

c. Name the line 2 different ways. _____

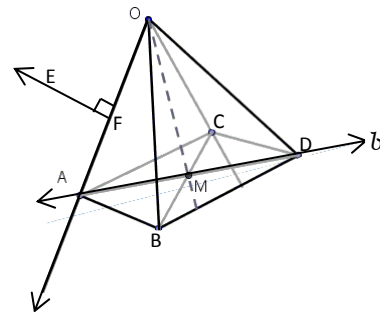
d. Are A, C, and D collinear? _____

e. Are A, O, C, and D coplanar? _____

f. Name the \perp objects. _____

g. Name the right angle. _____

h. Name the intersection of ACD and \overrightarrow{OB} . _____



11. Identify the type of transformation (translation, reflection, rotation, or dilation) in each of the images below.

