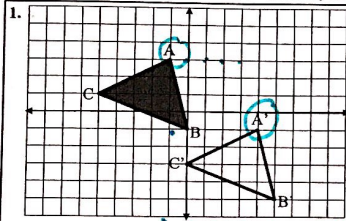
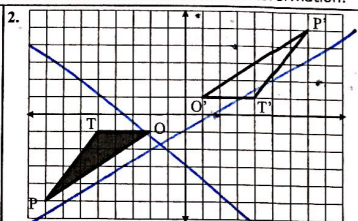


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_ Score: \_\_\_\_\_

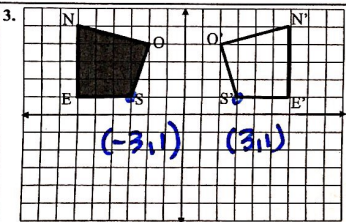
**Directions:** State the type of transformation that would carry the pre-image onto its image, (translation reflection, rotation or dilation) and write a function to describe the transformation.



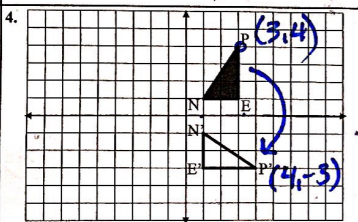
Transformation: **right 5, down 4**  
 Function:  $(x, y) \rightarrow (x+5, y-4)$



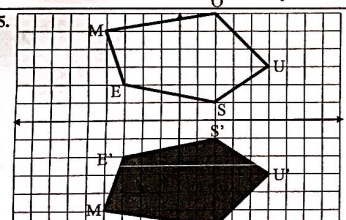
Transformation: \_\_\_\_\_  
 Function: \_\_\_\_\_



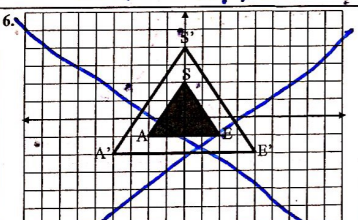
Transformation: **reflect across y-axis**  
 Function:  $(x, y) \rightarrow (-x, y)$



Transformation: **rotate 90° CW**  
 Function:  $(x, y) \rightarrow (y, -x)$



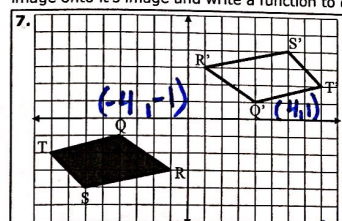
Transformation: **reflection across x-axis**  
 Function:  $(x, y) \rightarrow (x, -y)$



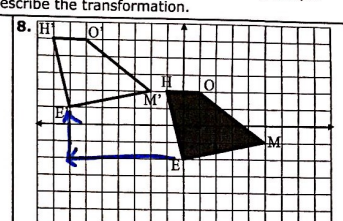
Transformation: \_\_\_\_\_  
 Function: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_ Score: \_\_\_\_\_

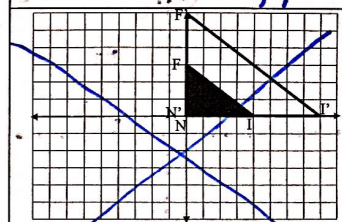
**Directions:** Using correct notation state the type of transformation that would carry the pre-image onto its image and write a function to describe the transformation.



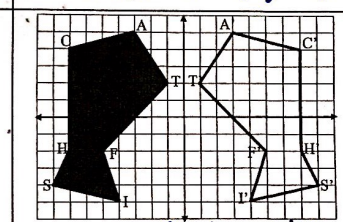
Transformation: **rotation 180°**  
 Function:  $(x, y) \rightarrow (-x, -y)$



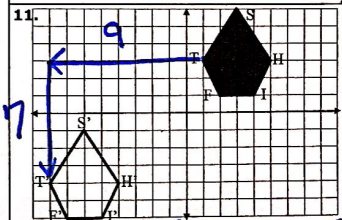
Transformation: **left 7, up 3**  
 Function:  $(x, y) \rightarrow (x-7, y+3)$



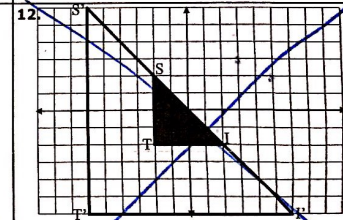
Transformation: \_\_\_\_\_  
 Function: \_\_\_\_\_



Transformation: **reflect y-axis**  
 Function:  $(x, y) \rightarrow (-x, y)$



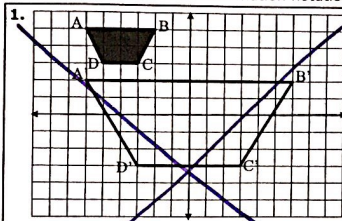
Transformation: **left 9 down 7**  
 Function:  $(x, y) \rightarrow (x-9, y-7)$



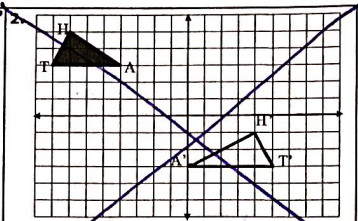
Transformation: \_\_\_\_\_  
 Function: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_ Score: \_\_\_\_\_

Directions: Name at least one sequence of transformations that will carry each pre image onto it's image. Use correct transformation notation.

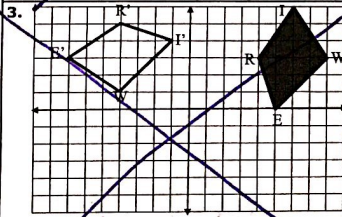


Transformations:

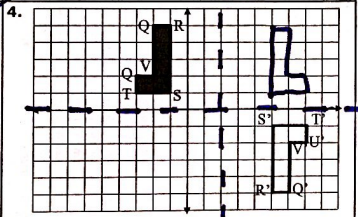


Transformations:

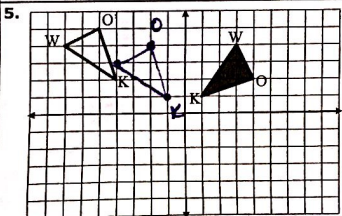
$x=2$



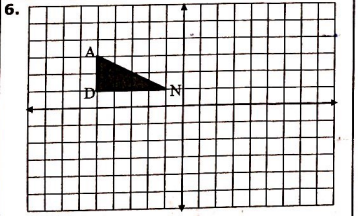
Transformations:



Transformations:  
 • reflect over  $x=2$   
 • reflect over  $x$ -axis



Transformations:  
 • rotate  $90^\circ$  ccw about  $(0,0)$   
 • left 3; up 1



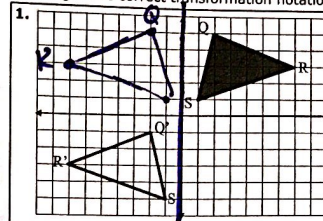
Transformations:

3

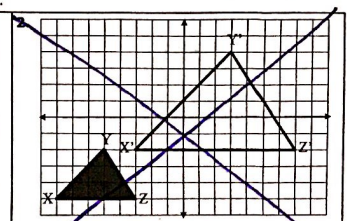
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Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_ Score: \_\_\_\_\_

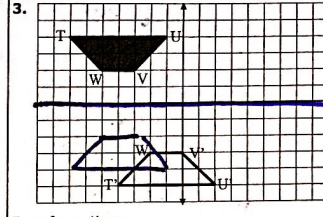
Directions: Name at least one sequence of transformations that will carry each pre image onto it's image. Use correct transformation notation.



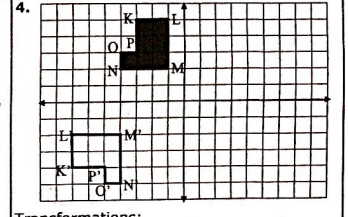
Transformations:  
 • reflect over  $y$ -axis  
 • down 6



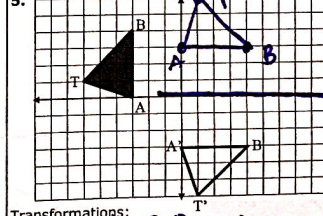
Transformations:



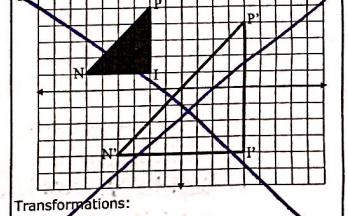
Transformations:  
 • reflect over  $x$ -axis  
 • down 1, right 3



Transformations:



Transformations:  
 • rotate  $90^\circ$  CW  
 • reflect  $x$ -axis



Transformations:

4

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