

Hansen Geometry: Transformations Review #1

1.) The types of transformations of geometric figures in the coordinate plane can be described as a “slide,” a “flip” or a “turn.” What are the more formal names used to identify these transformations?

a.) slide:

b.) flip:

c.) turn:

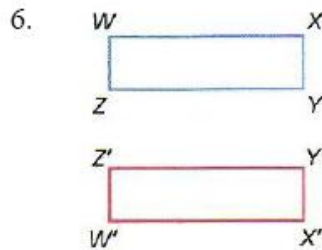
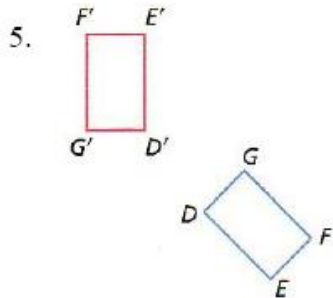
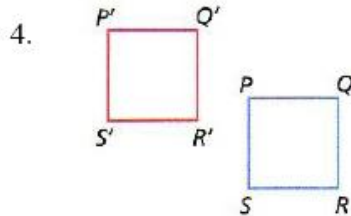
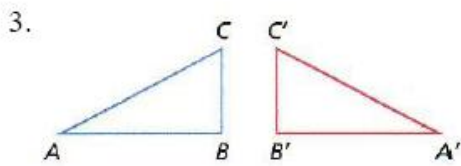
2.) Which transformation is suggested by each of the following?

a.) mountain range and its image on a lake

b.) straight line path of a band marching down a street

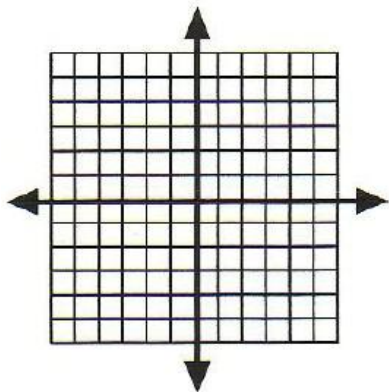
c.) wings of a butterfly

For #3-6, identify each transformation.

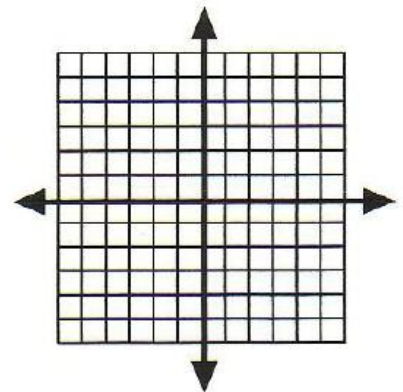


For #7-8, given point $F(3, 5)$, $G(-1, 4)$ and $H(5, 0)$, draw $\triangle FGH$ on each grid and its reflection across each of the following lines.

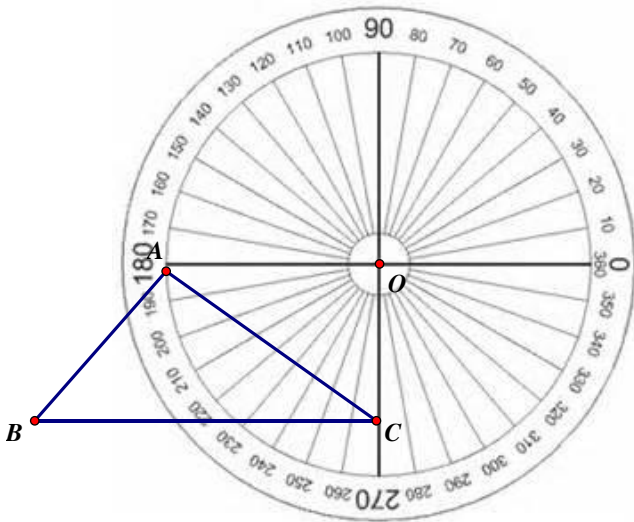
7.) $\triangle FGH$ and its reflection over the x-axis



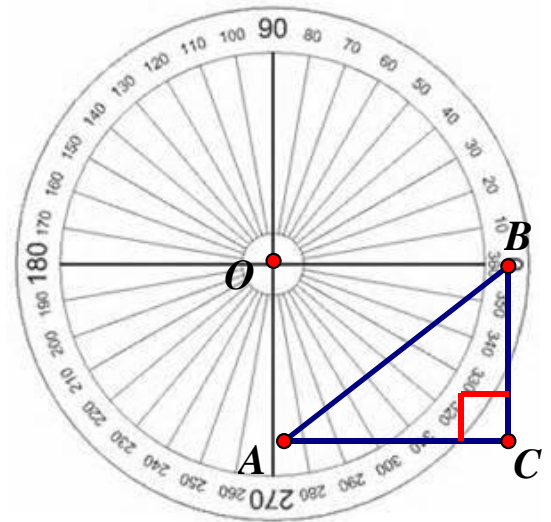
8.) $\triangle FGH$ and its reflection over the y-axis



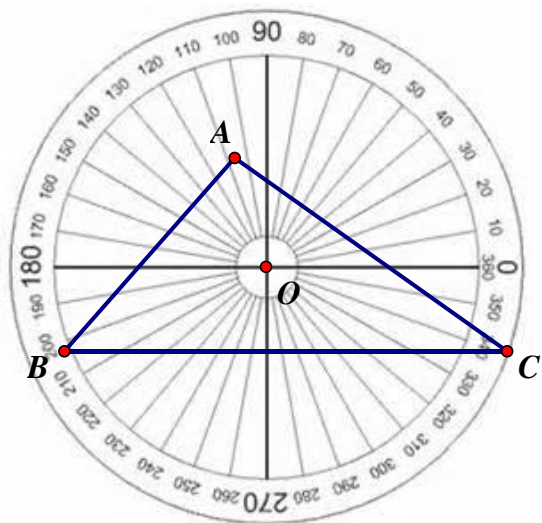
9.) Rotate 150° around point O.



10.) Rotate 70° around point O.



11.) Rotate 90° around point O.



12.) Rotate 210° around point B.

