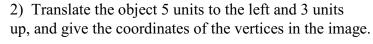
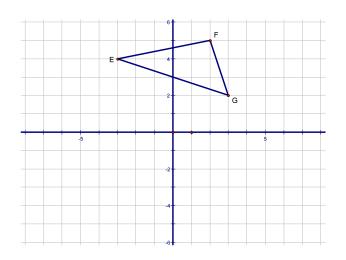
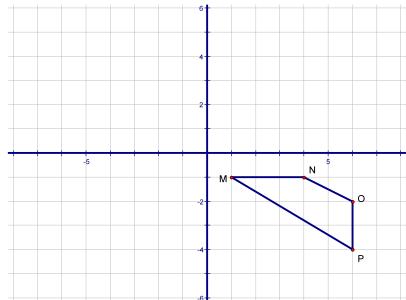
Transformations 2.4 Geometry

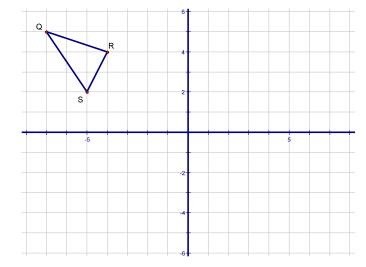
1) Reflect the shape over both axes and give the coordinates of the vertices in each image.

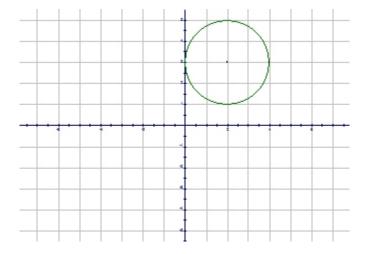






- 3) Dilate the object by a factor of 3 from point Q. Give the coordinates of the vertices in the image.
- 4) Reflect the circle over the y-axis, and dilate it by a scale factor of 3/2.





- 5) The vertices of a shape have coordinates (-6, -2), (-6, -6), (0, -2), and (0, -6).
 - A. After being transformed, the vertices of the image have coordinates (6, -2), (6, -6), (0, -2) and (0, -6). What was the transformation that occurred?
 - B. What was the transformation if the image has coordinates (-3, -2), (-3, -4), (0, -2), and (0, -4)?

Transform the figure under the given mapping then state the type of transformation that has occurred.

6)
$$(1, 3) (-2, -1) (-1, 1); (x, y) \rightarrow (2x, 2y)$$

7)
$$(-4, -1)$$
 $(2, -2)$ $(-1, -3)$; $(x, y) \rightarrow (x, -y)$

