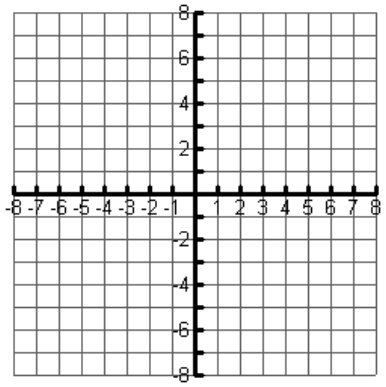
7.1 Transformations Practice
Pre-AP Geometry

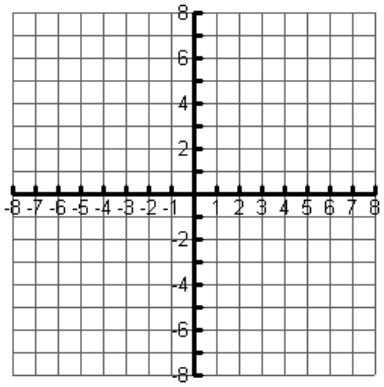
Name _____
Period _____ Date _____

For 1 & 2, find the coordinates of the image after the given reflection.

1. M(3, 4) reflected over the line y = 1

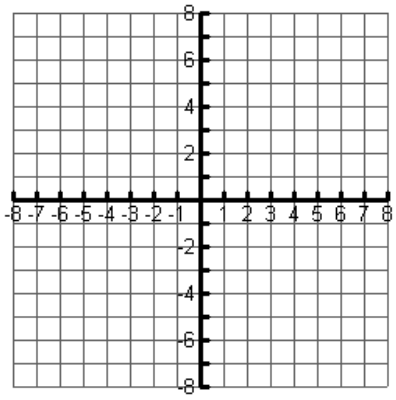


2. P(-2, 3) reflected over the line x = -3



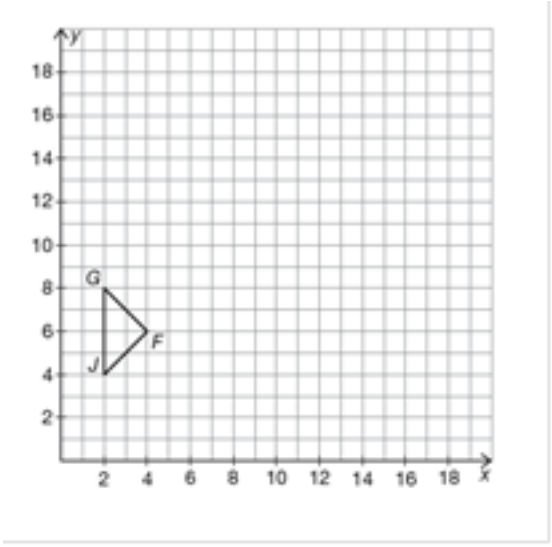
The vertices of ΔABC are A(-4,4), B(0,7), and C(-1,3). Reflect ΔABC about the first line. Then reflect ΔA'B'C' about the second line. Graph ΔA'B'C' and ΔA''B''C''.

3. About y = 4, and then about y = 1



Use triangle JGF to do the following transformations:

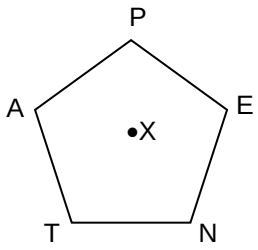
4. Reflect over the line x =6, then translate up 5 units.



5. Regular pentagon PENTA is given with center X

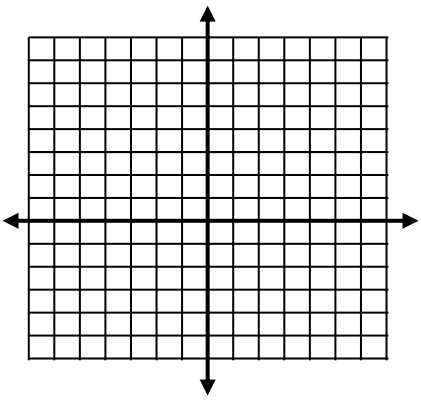
   a) name the image E under a 72° rotation about X.

   b) name the image of P under a 216° rotation about X.



6. Rotate the point whose coordinates are D(-2, 1) 270° about the origin

D'(,)

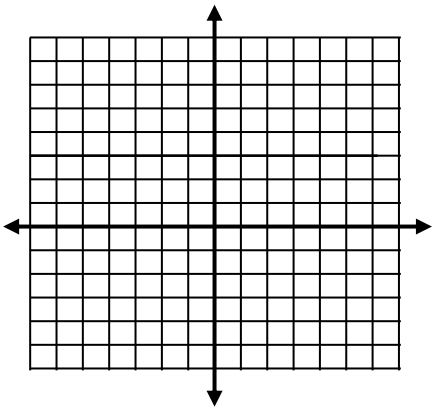


7. Rotate ΔABC whose coordinates are A(3, 2), B(3, 6), C(6, 1) 90° about the origin.

A'(,)

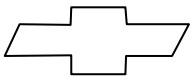
B'(,)

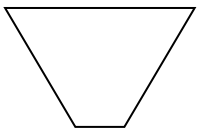
C'(,)



8. a) Deterimine if the figure has rotational symmetry.
   b) Determine if the figure has reflectional symmetry, and if so, how many lines?

A. 

B. 

C. 

D.