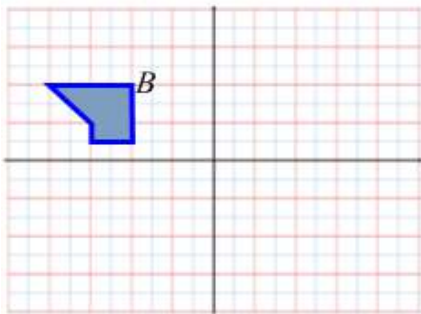


Geometry 2 - 3 Week Study Guide #1

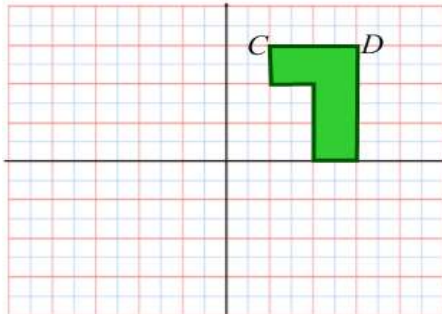
Transformations (2 points each)

1) What is the coordinate of the image of Point B after a translation of $(x, y) \rightarrow (x+10, y-6)$?
Graph the translation.



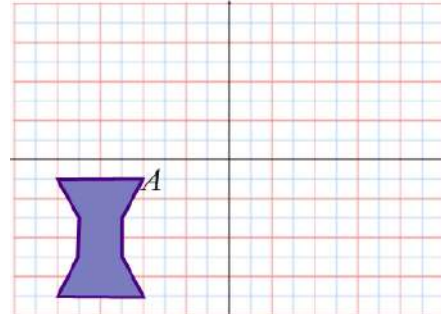
$B' = (\quad , \quad)$

2) What are the endpoints of \overline{CD} after a rotation of 180° around the origin?
Graph the rotation.



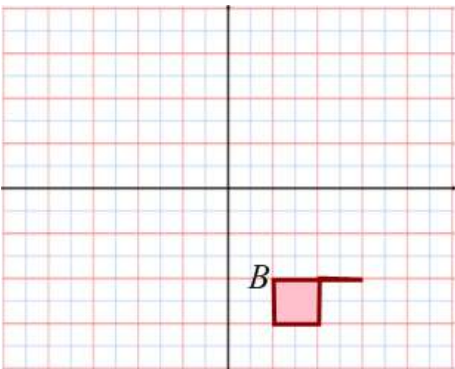
$C' = (\quad , \quad)$ $D' = (\quad , \quad)$

3) What is the coordinate of the image of Point A after a reflection across the x -axis?
Graph the reflection.



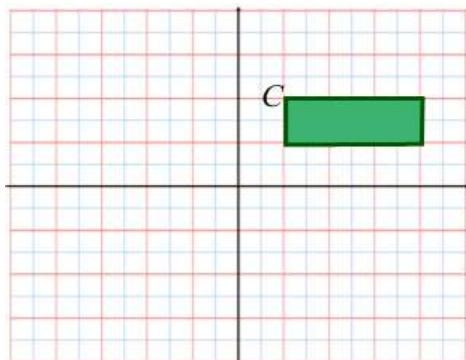
$A' = (\quad , \quad)$

4) What is the coordinate of the image of Point B after a translation of $(x, y) \rightarrow (-3x, -y)$?
Graph the translation.



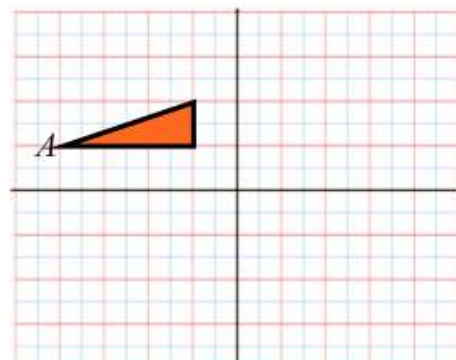
$B' = (\quad , \quad)$

5) What is the coordinate of the Point C after a rotation of 90° counter-clock wise around the origin?
Graph the rotation.



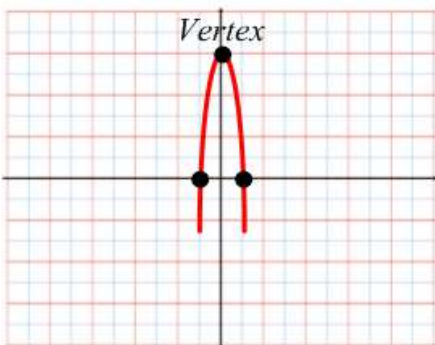
$C' = (\quad , \quad)$

6) What is the coordinate of the image of Point A after a reflection across the line $y = x$?
Graph the reflection.



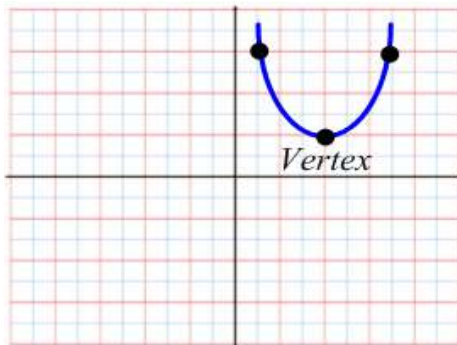
$A' = (\quad , \quad)$

7) What is the coordinate of the vertex after a translation of $(x, y) \rightarrow (x+4, y-2)$?
Graph the translation.



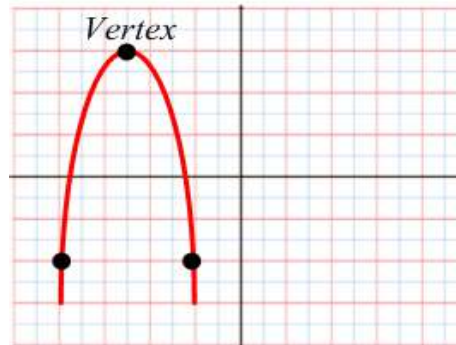
$Vertex' = (\quad , \quad)$

8) What is the vertex of the parabola after a 180° rotation around the origin?
Graph the rotation.



$Vertex' = (\quad , \quad)$

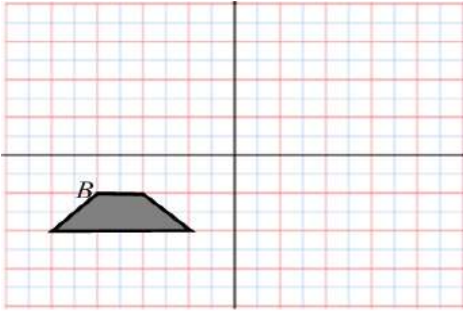
9) What is the coordinate of the the vertex after a reflection across the line $y = x$?
Graph the reflection.



$Vertex' = (\quad , \quad)$

10) What is the coordinate of the image of Point B after a translation of $(x, y) \rightarrow (x+6, y+4)$?

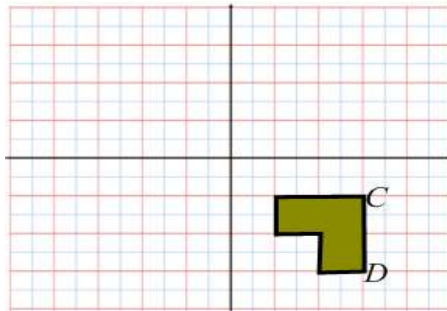
Graph the translation.



$B' = (\quad , \quad)$

11) What are the endpoints of \overline{CD} after a rotation of 180° around the origin?

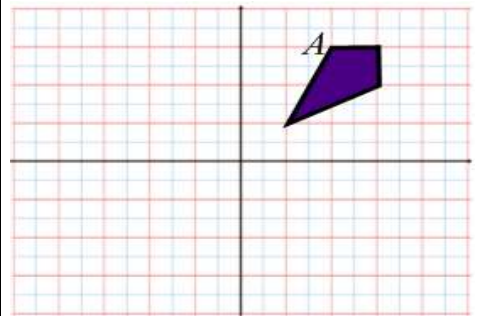
Graph the rotation.



$C' = (\quad , \quad)$ $D' = (\quad , \quad)$

12) What is the coordinate of the image of Point A after a reflection across the y-axis?

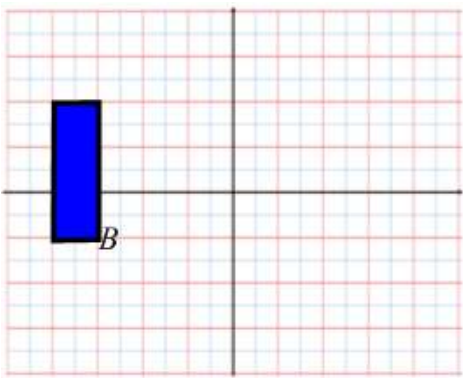
Graph the reflection.



$A' = (\quad , \quad)$

13) What is the coordinate of the image of Point B after a translation of $(x, y) \rightarrow (x+9, y+4)$?

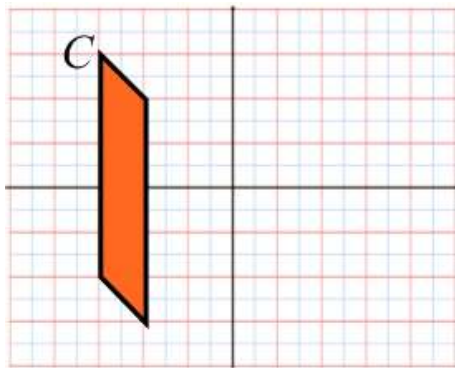
Graph the translation.



$B' = (\quad , \quad)$

14) What is the coordinate of the Point C after a rotation of 90° clock wise around the origin?

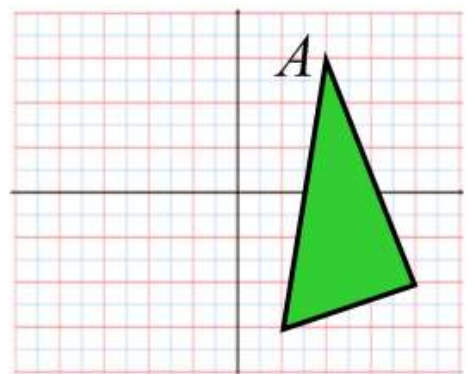
Graph the rotation.



$C' = (\quad , \quad)$

15) What is the coordinate of the image of Point A after a reflection across the line y-axis?

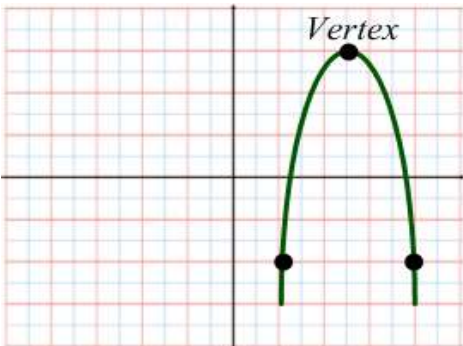
Graph the reflection.



$A' = (\quad , \quad)$

16) What is the coordinate of the vertex after a translation of $(x, y) \rightarrow (x-10, y-4)$?

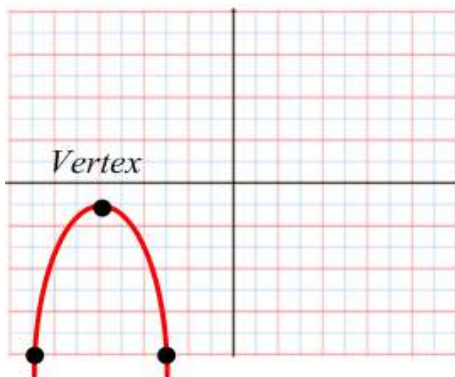
Graph the translation.



$Vertex' = (\quad , \quad)$

17) What is the vertex of the parabola after a 180° rotation around the origin?

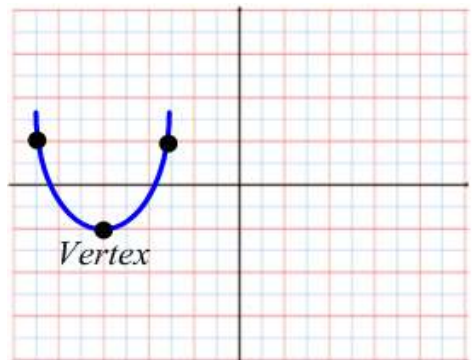
Graph the rotation.



$Vertex' = (\quad , \quad)$

18) What is the coordinate of the the vertex after a reflection across the line $y = x$?

Graph the reflection.



$Vertex' = (\quad , \quad)$

