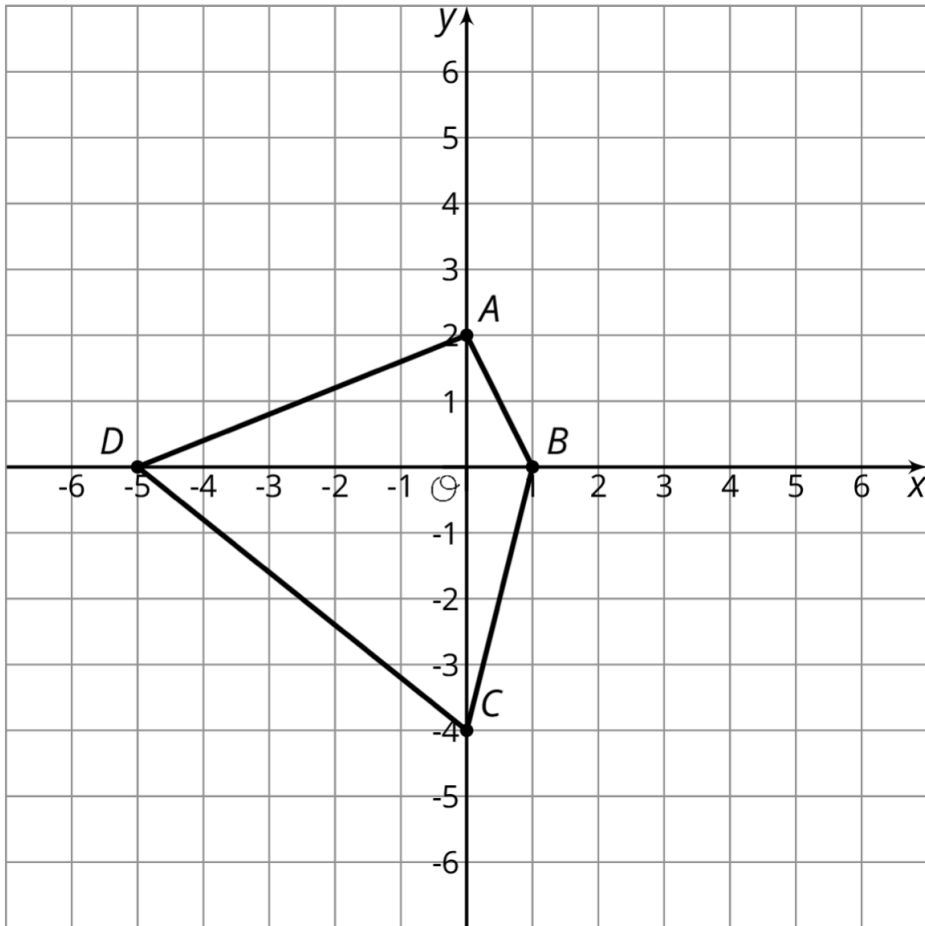


Problem Card 1



Polygon $A'B'C'D'$ is the image of $ABCD$ after some transformations.

Find $A'B'C'D'$.

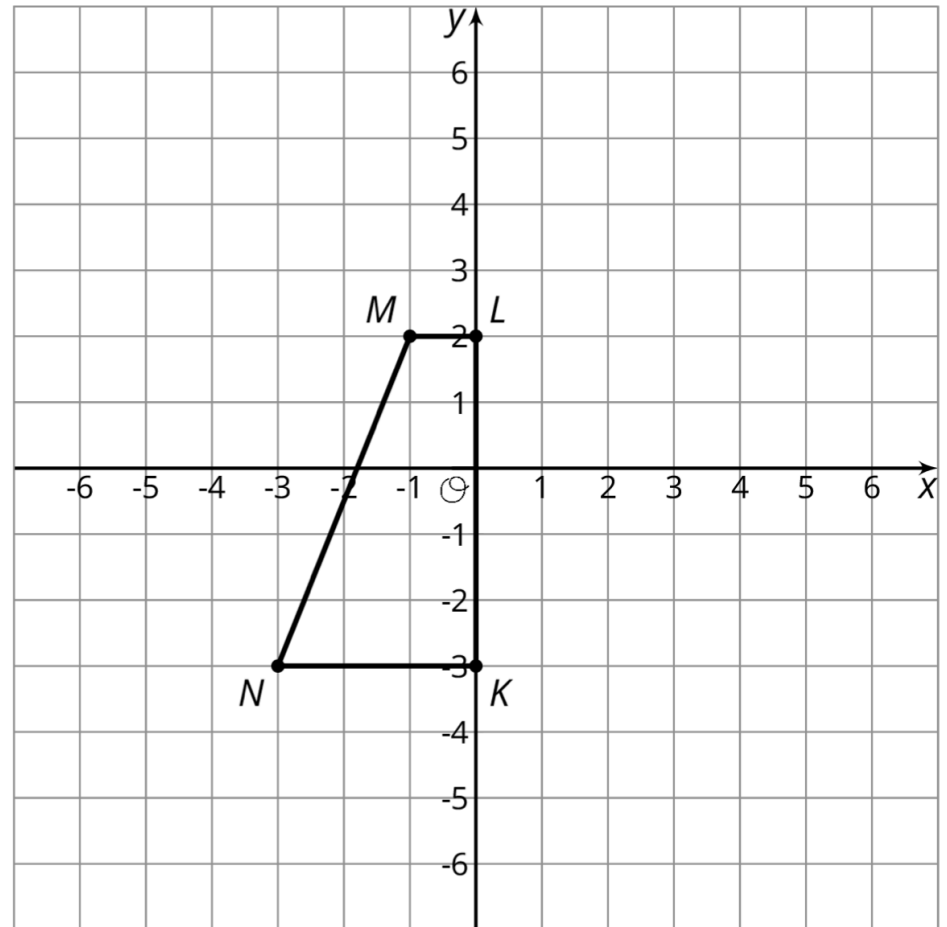
Draw it with using the following moves:

Translation: 2 units up and 3 units to the right

Rotation: none

Reflection: over x-axis

Problem Card 2



Polygon $K'L'M'N'$ is the image of $KLMN$ after some transformations.

Find $K'L'M'N'$.

Draw it with using the following moves:

Translation: 1 unit left and 3 units down

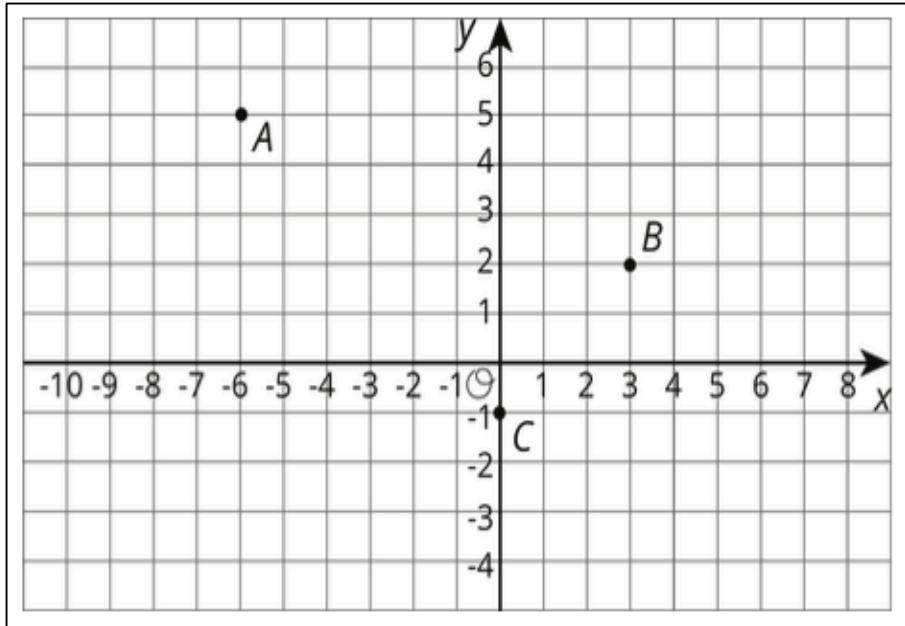
Rotation: 90 degrees

Direction of rotation: clockwise

Center of rotation: (0,0)

Reflection: none

Using the grid above from Lesson 5, determine the following:



PART 1:

1. What are the coordinates of Point A? (,)
2. What QUADRANT is Point A located in? _____
3. What are the coordinates of Point B? (,)
4. What QUADRANT is Point B located in? _____
5. What are the coordinates of Point C? (,)

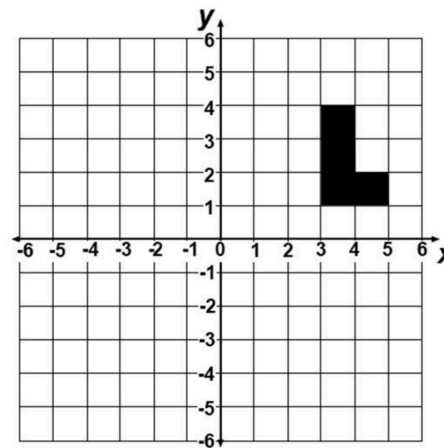
PART 2:

6. Reflect POINT A across the y-axis and label it A'.
7. What are the coordinates of A'? (,)
8. What do you notice when comparing A and A' ?

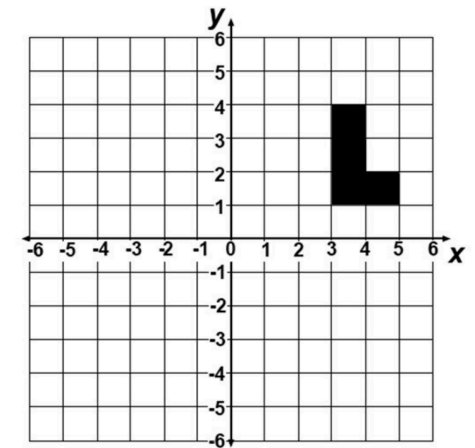
9. Reflect POINT B across the x-axis and label it B'.
10. What are the coordinates of B'? (,)
11. What do you notice when comparing B and B' ?

12. What would happen if you Reflect POINT C across the x-axis?

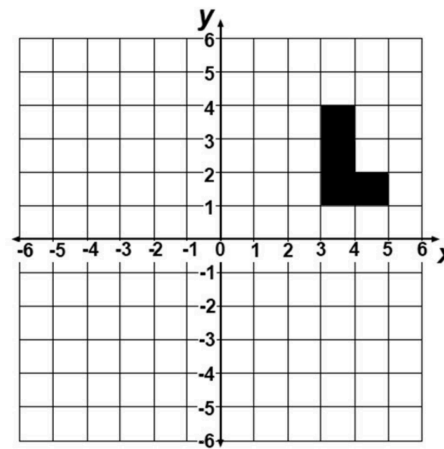
13. What would happen if you Reflect POINT C across the y-axis?



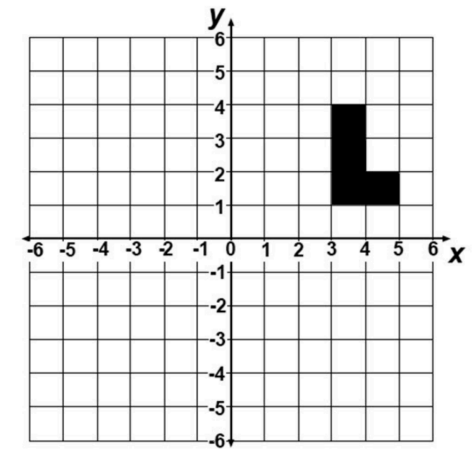
Reflect the figure across the x-axis



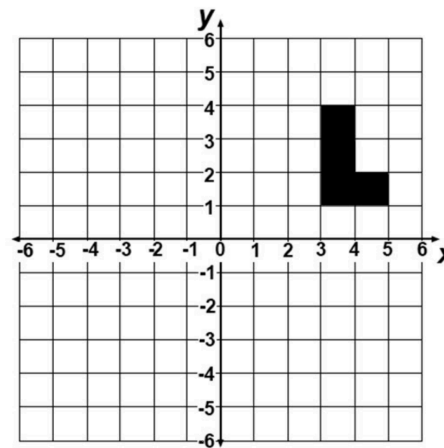
Reflect the figure across the y-axis



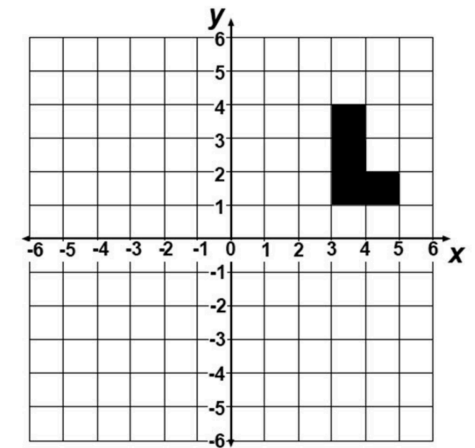
Rotate the figure 90 degrees clockwise using the origin (0,0) as center of rotation.



Rotate the figure 90 degrees counter-clockwise using the origin (0,0) as center of rotation.



Translate the figure LEFT 5 units and up 2 units



Translate the figure DOWN 3 units and RIGHT 1 unit