

# Class Work: Reflections

You need your notes and some graph paper.  
Title the paper: Reflections

I will check your work at the end of class.



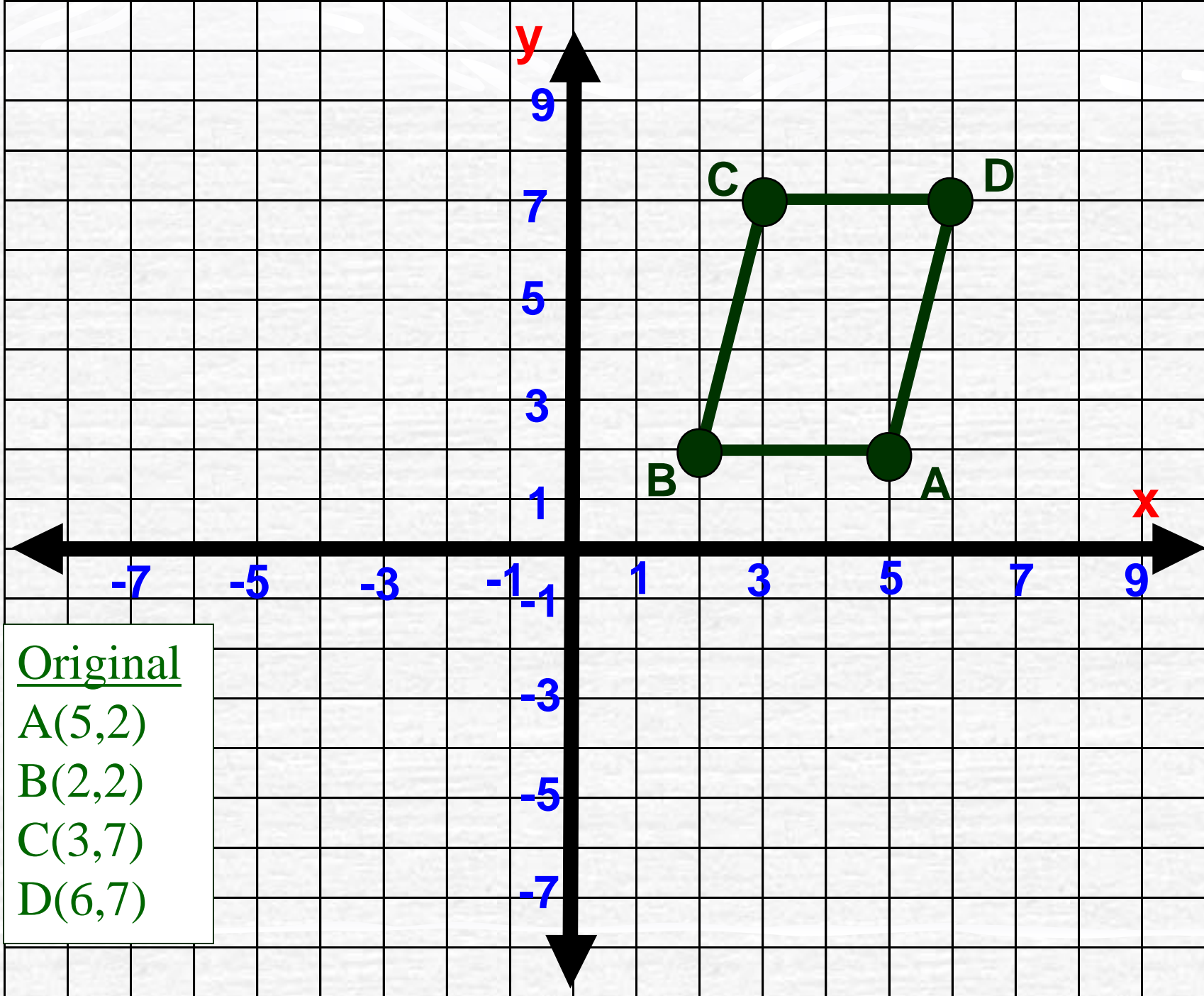
# Reflections

- Reflection - a transformation that flips a figure across a line (line of reflection)
- A mirror image is formed



# Reflections

- Size and shape of the figure remain the same
- The coordinates of the figure's vertices are different



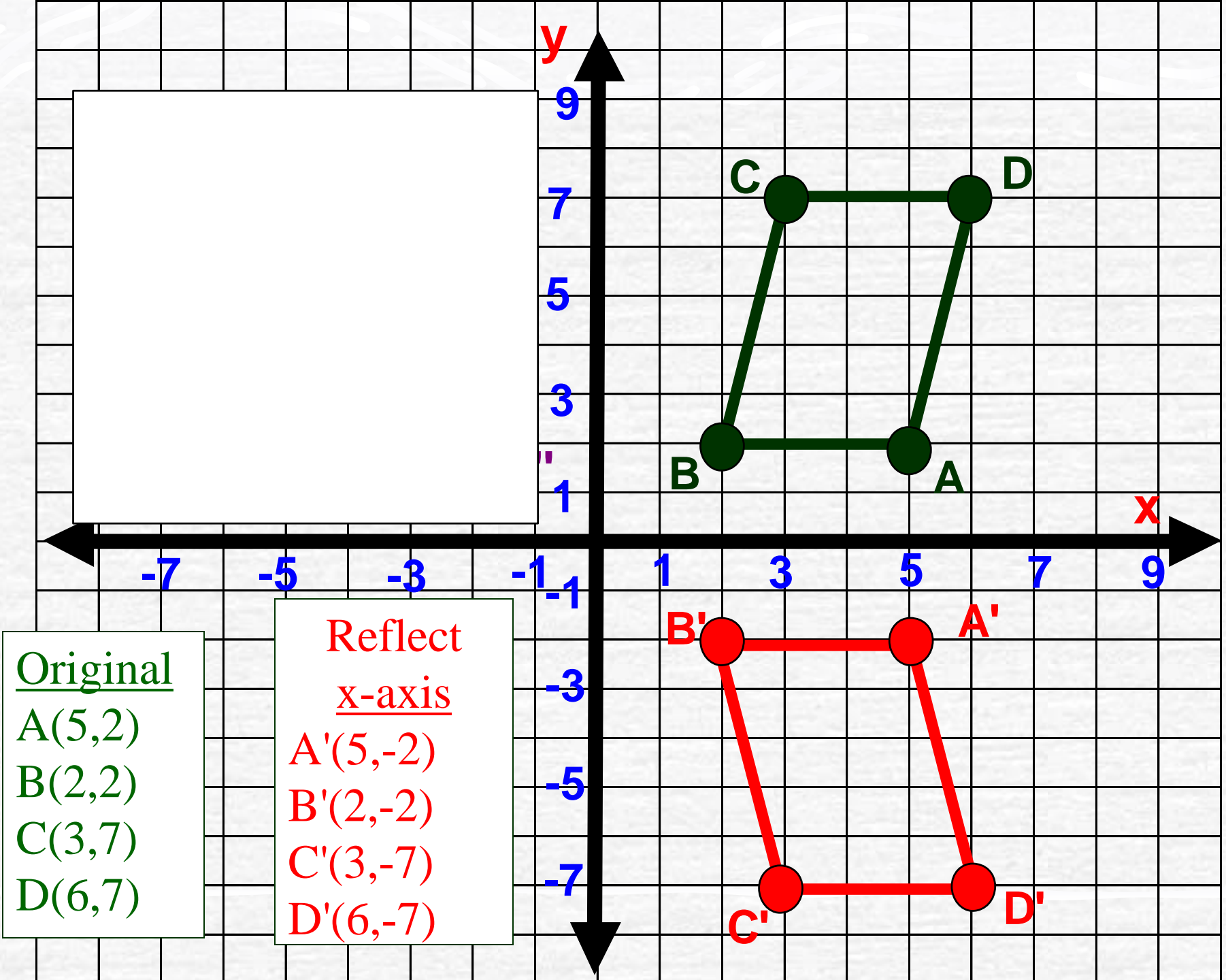
Original

A(5,2)

B(2,2)

C(3,7)

D(6,7)

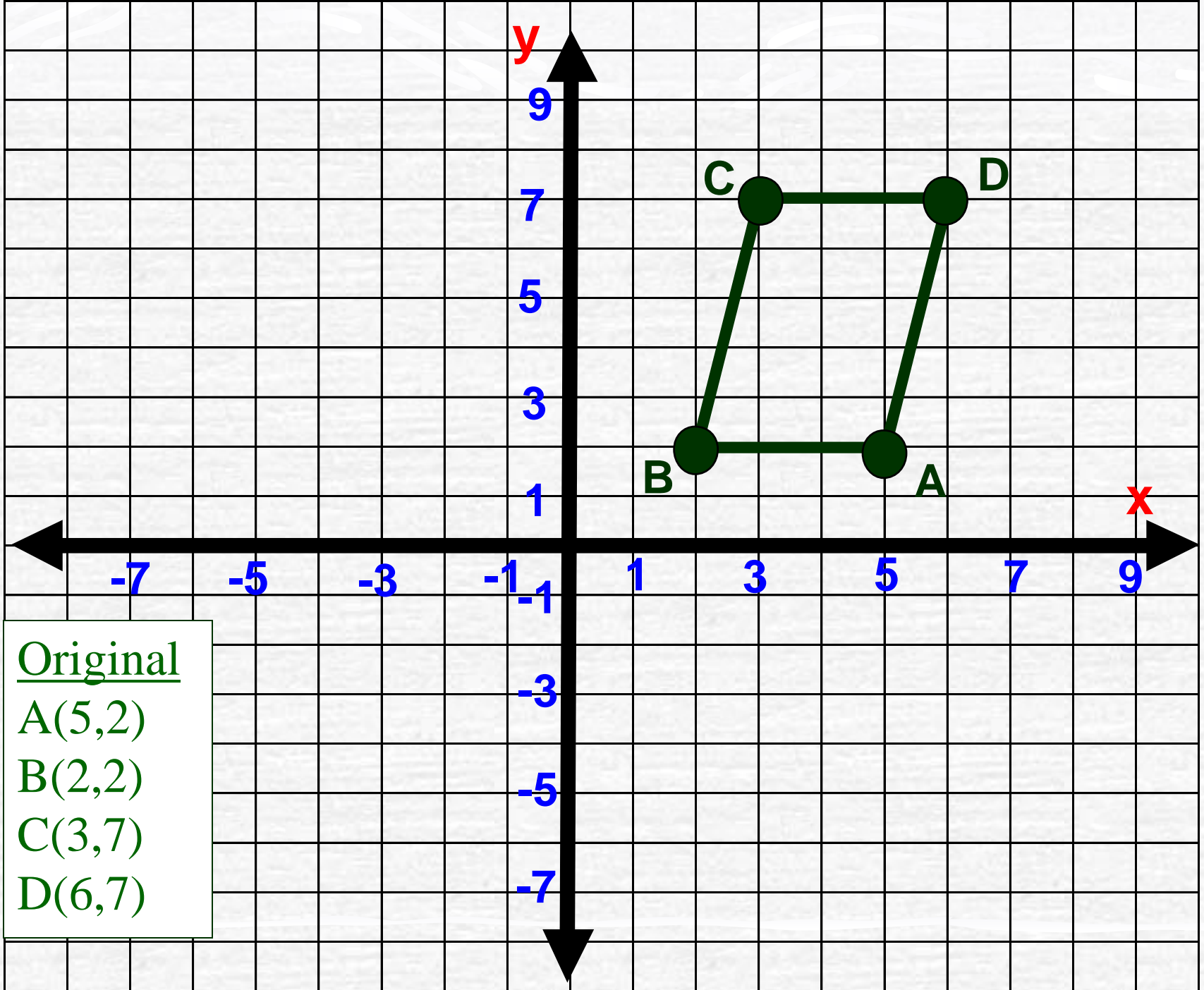


Original  
A(5,2)  
B(2,2)  
C(3,7)  
D(6,7)

Reflect  
x-axis  
A'(5,-2)  
B'(2,-2)  
C'(3,-7)  
D'(6,-7)

# Reflections

- When reflected across the x-axis, the values of the image will:
  - The x-values remain the same.
  - The y-values are opposite.
  - $A(2,5)$      $A'(2,-5)$



Original

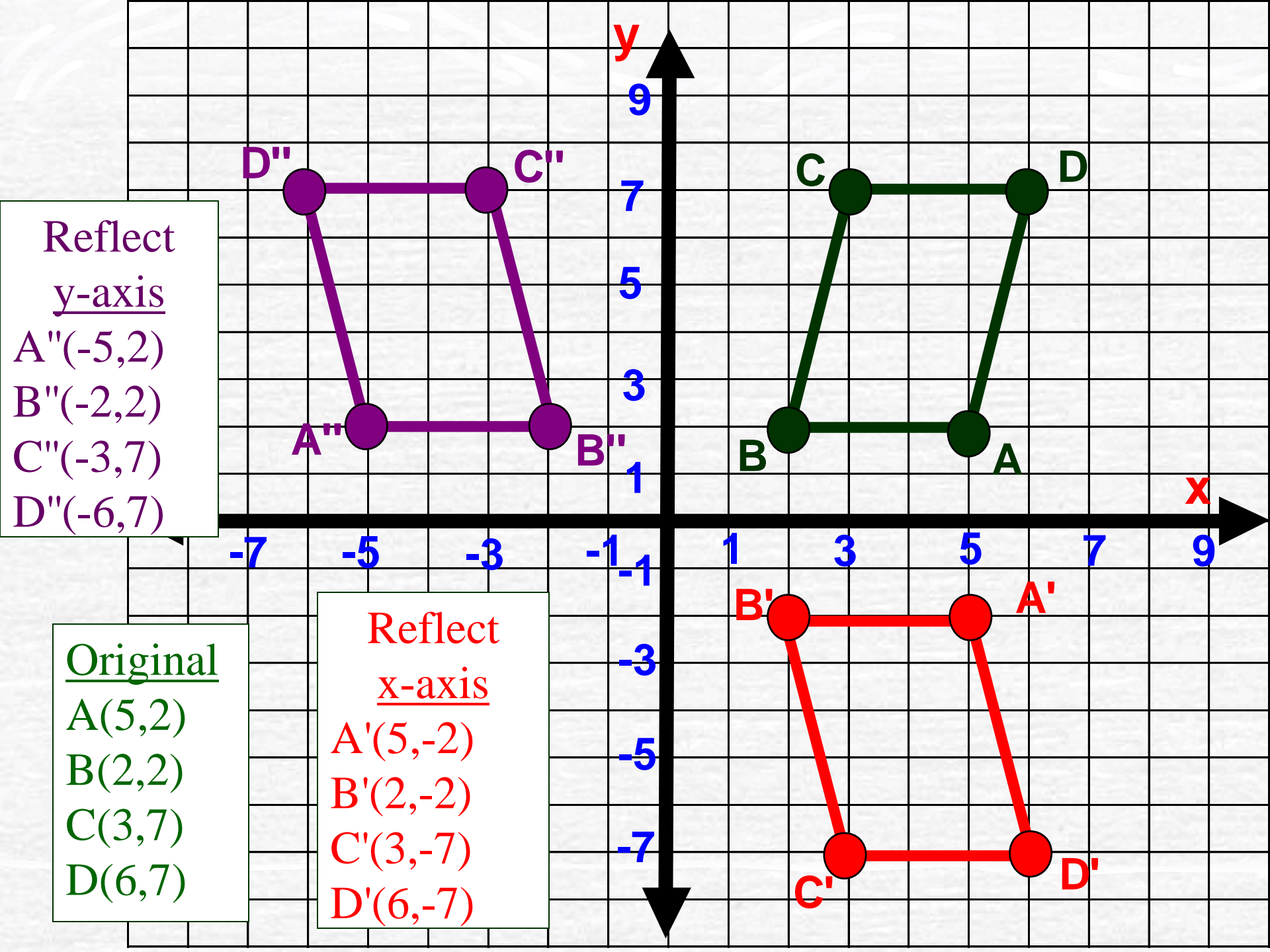
A(5,2)

B(2,2)

C(3,7)

D(6,7)





# Reflections

- When reflected across the y-axis, the values of the image will:
  - The x-values are opposite.
  - The y-values remain the same.
  - $A(2,5)$      $A'(-2,5)$