Class Work: Translations

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

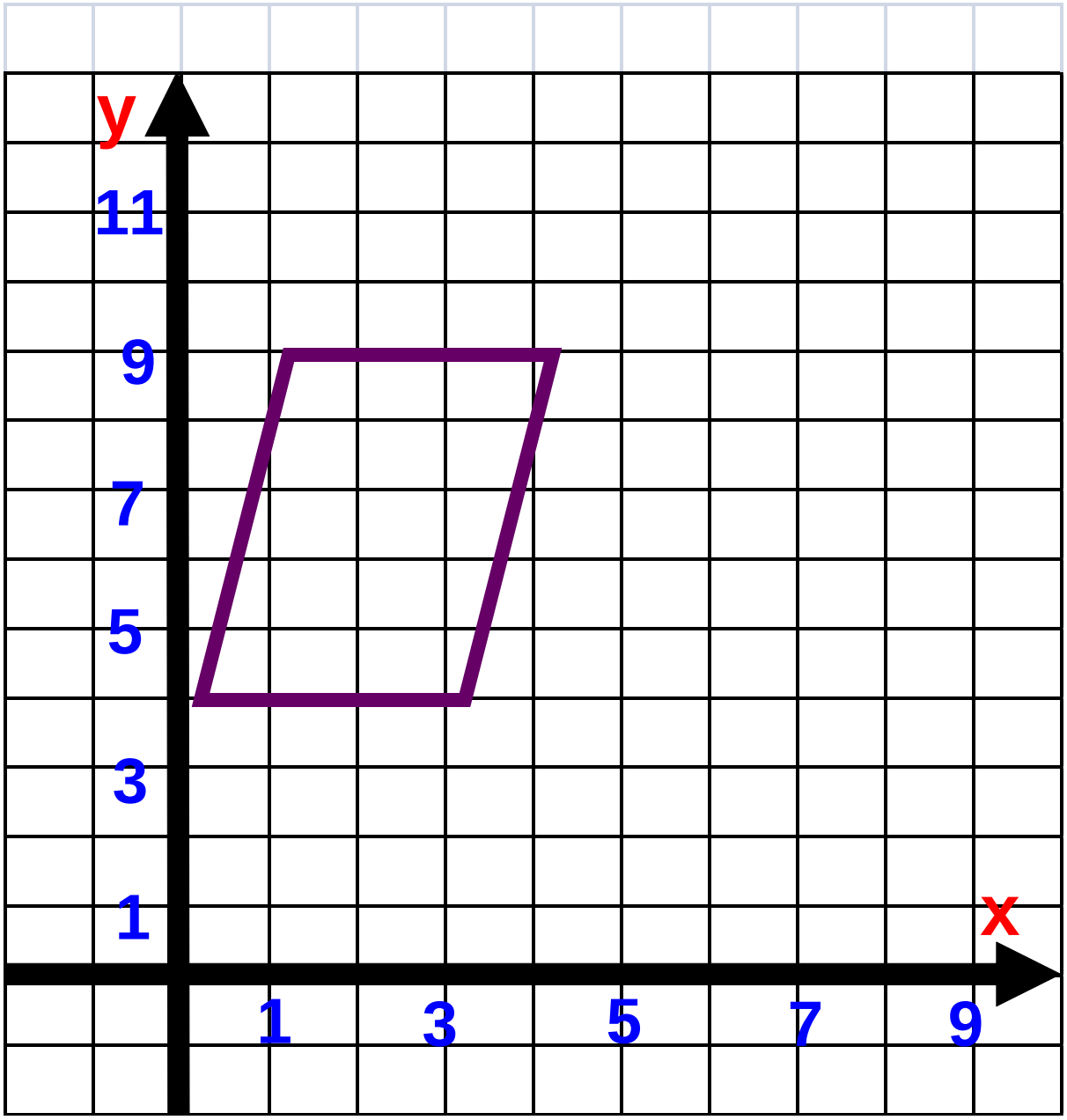
I will check your work at the end of class.

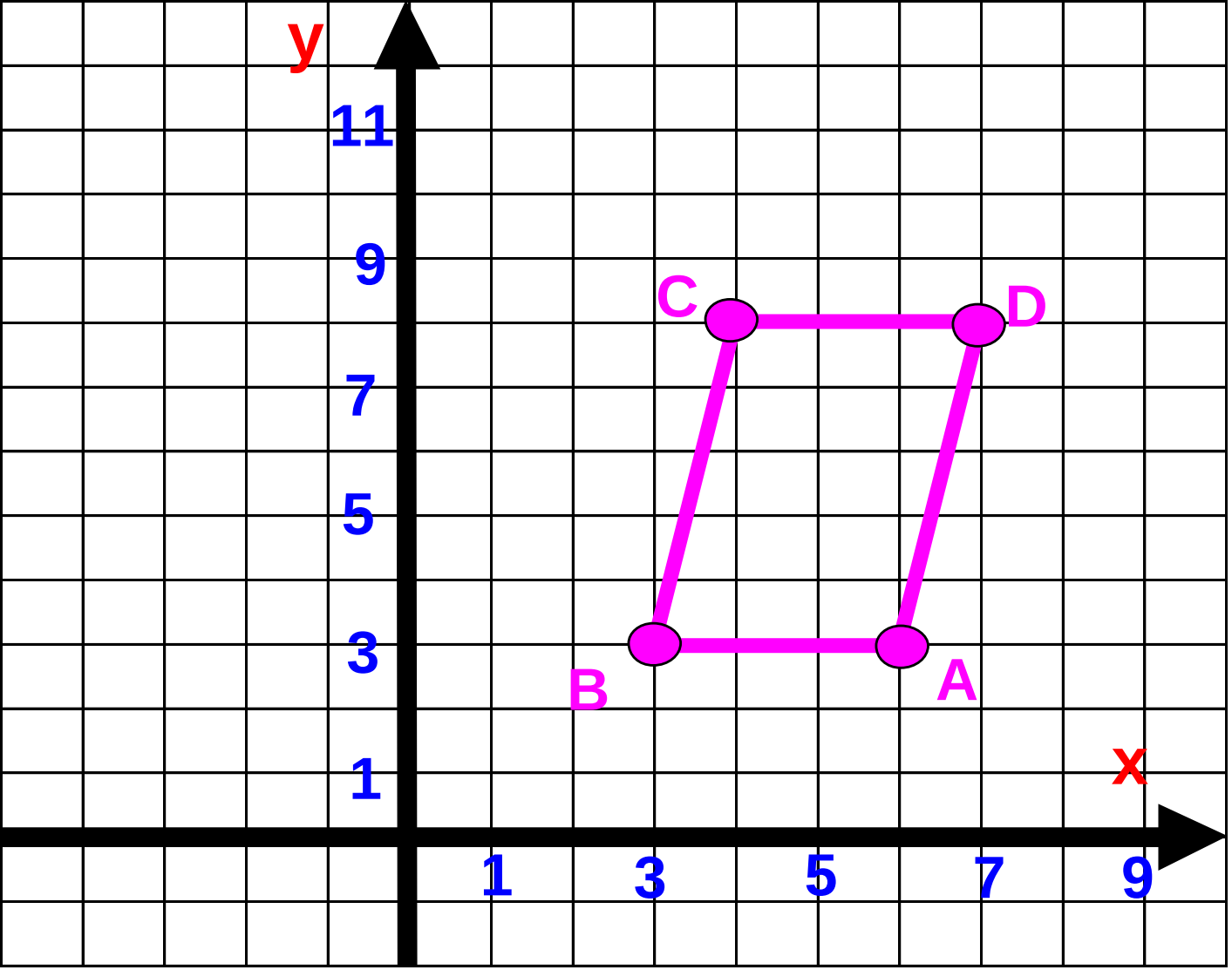
Translations

- Translation – a transformation that slides figures around in the coordinate plane.
- The size or shape of the original figure is not changed.

Translations

- All points of a figure will move the same # of places.


y
11
9
7
5
3
1
x
1
3
5
7
9



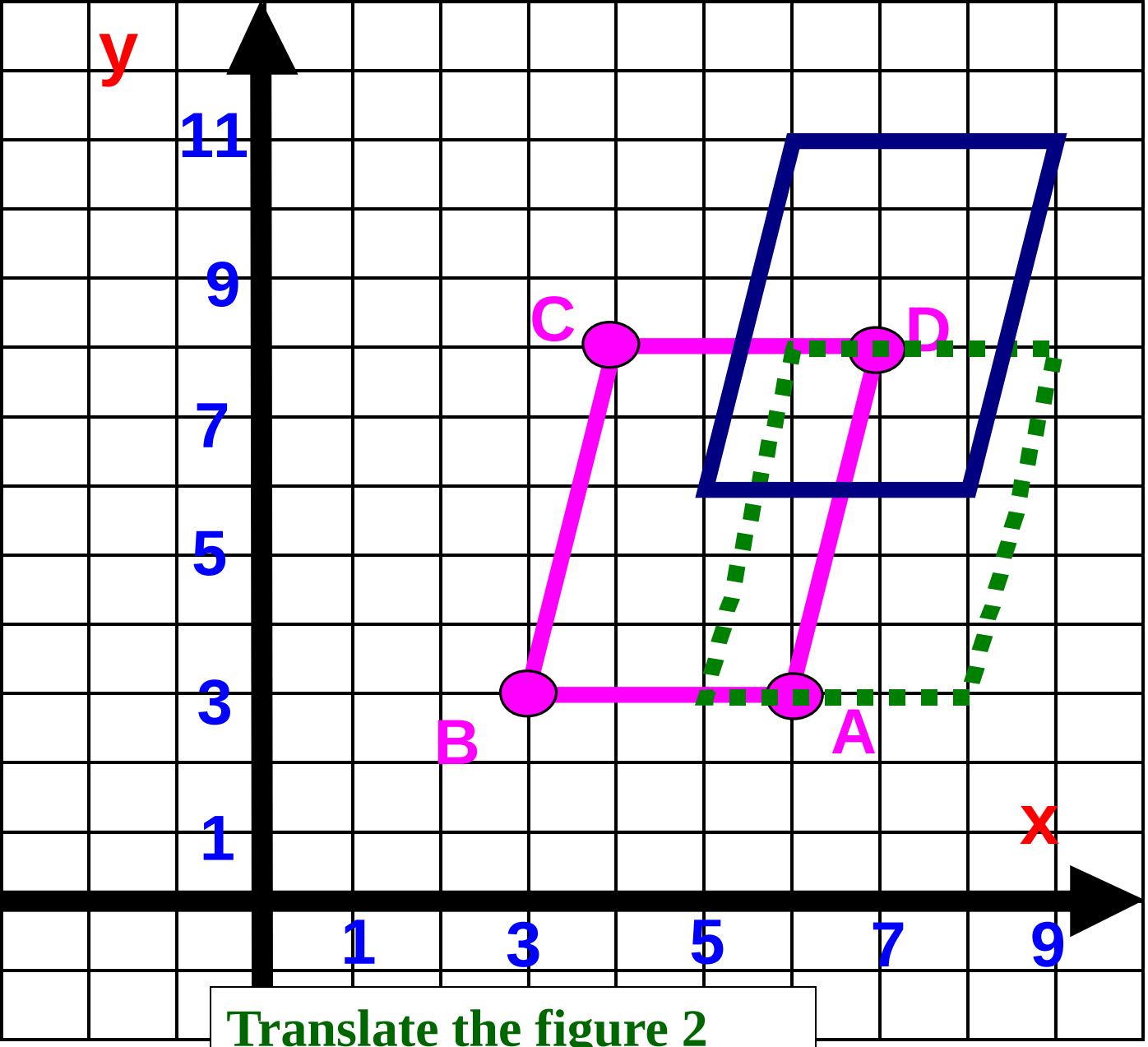
Translate 2 spaces to the right.

Translate up 3 spaces.

Original
A(6,3)
B(3,3)
C(4,8)
D(7,8)

Image
A'(6+2,3+3)
B'(3+2,3+3)
C'(4+2,8+3)
D'(7+2,8+3)

Translate the figure 2 spaces to the right and 3 spaces up.



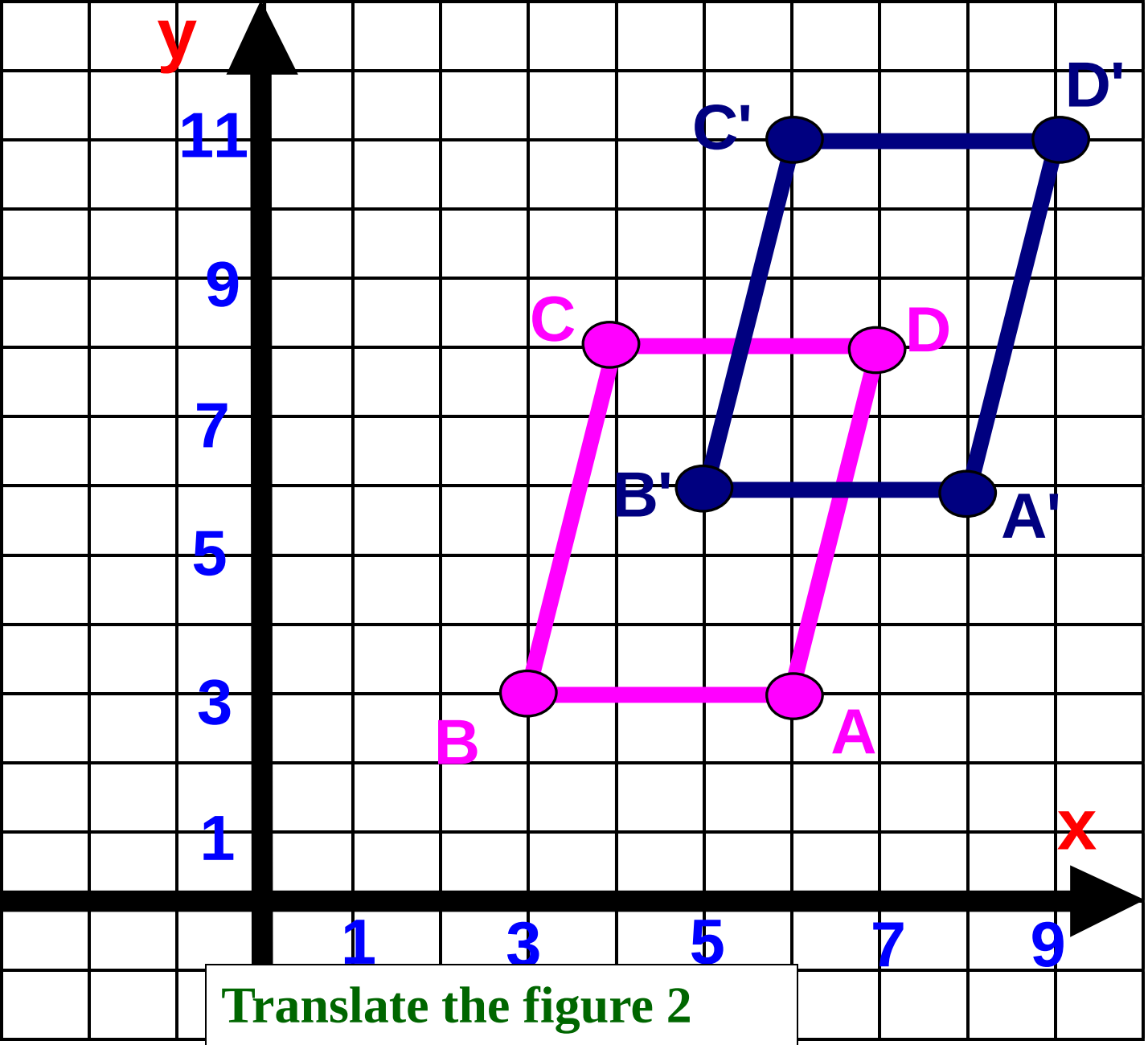
Translate 2 spaces to the right.

Translate up 3 spaces.

Original
A(6,3)
B(3,3)
C(4,8)
D(7,8)

Image
A'(6+2,3+3)
B'(3+2,3+3)
C'(4+2,8+3)
D'(7+2,8+3)

Translate the figure 2 spaces to the right and 3 spaces up.



Translate 2 spaces to the right.

Translate up 3 spaces.

Original
A(6,3)
B(3,3)
C(4,8)
D(7,8)

A'(8,6)
B'(5,6)
C'(6,11)
D'(9,11)

Translate the figure 2 spaces to the right and 3 spaces up.

Translations

- Translating Left or Right involves the x values.
- To find new x value:

  Right-add

  Left-subtract

  Translate the image in the graph

Translations

- Translating Up or Down involves the y values.
- To find new y value:

  Up-add

  Down-subtract

  Translate the image in the graph