

TAKS Objective 6
TEK 8.6B
Tutorial
(Grades 9 and 10)

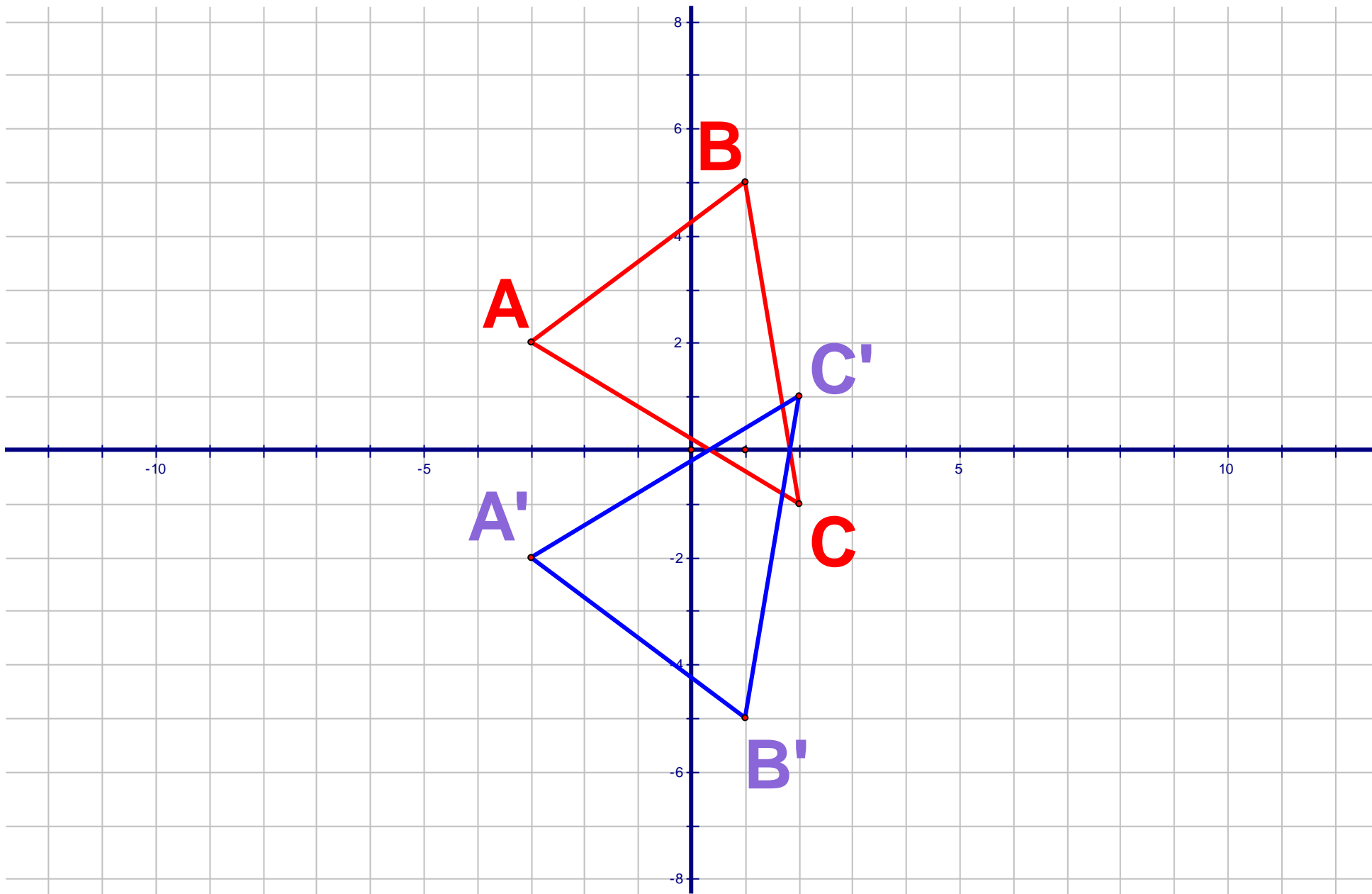
...graph dilations, reflections, and translations
on a coordinate plane.

Triangle ABC has the following coordinates: A(-3, 2) B(1, 5) C(2, -1).

Reflect the triangle across the x-axis.

Hint 1: Graph the triangle.

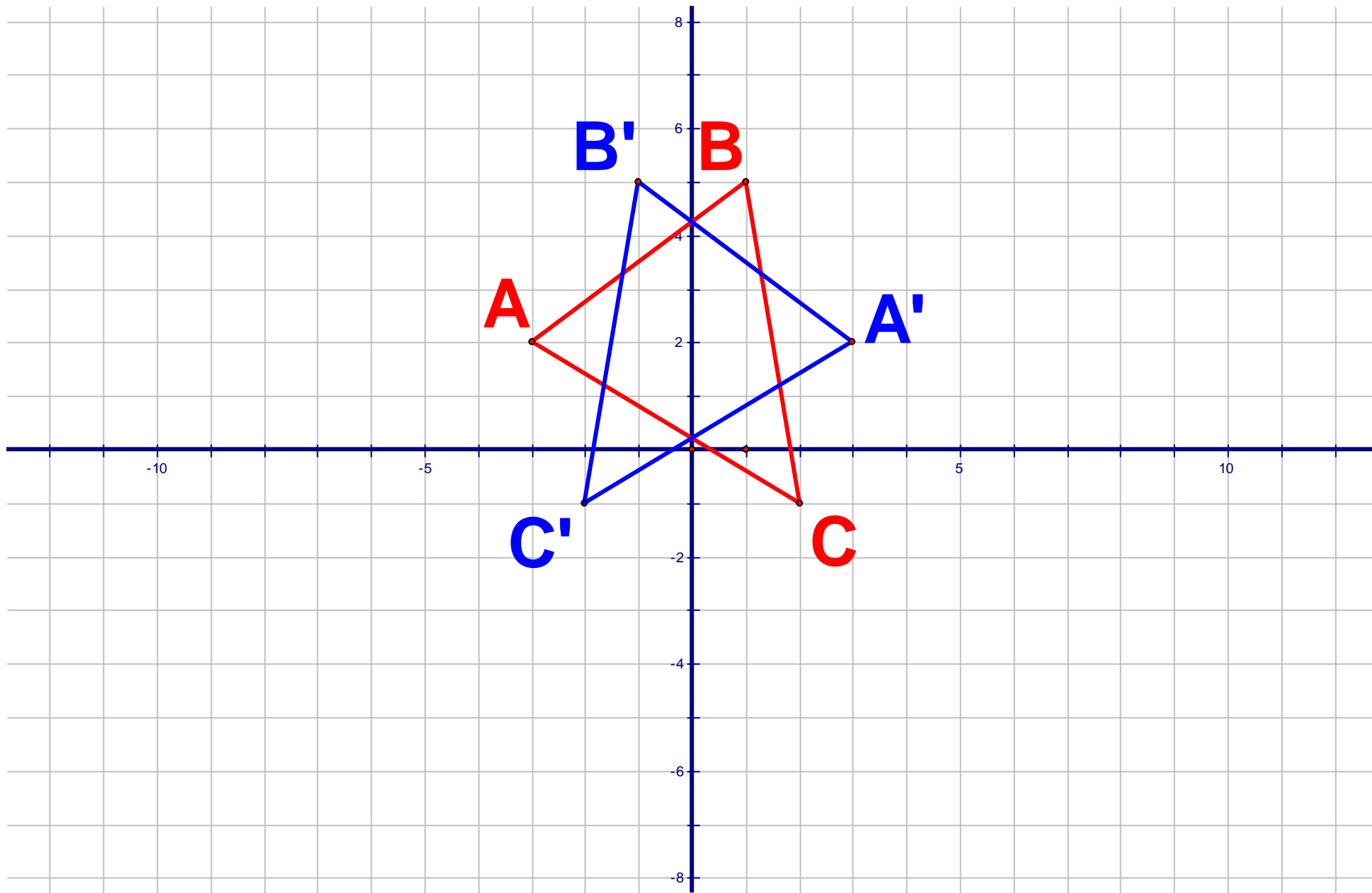
Hint 2: Find out how far each point is from the x-axis. Move each point the same distance across the x-axis.



Triangle ABC has the following coordinates: A(-3, 2) B(1, 5) C(2, -1).
Reflect the triangle across the y-axis.

Hint 1: Graph the triangle.

Hint 2: Find out how far each point is from the y-axis. Move each point the same distance across the y-axis.



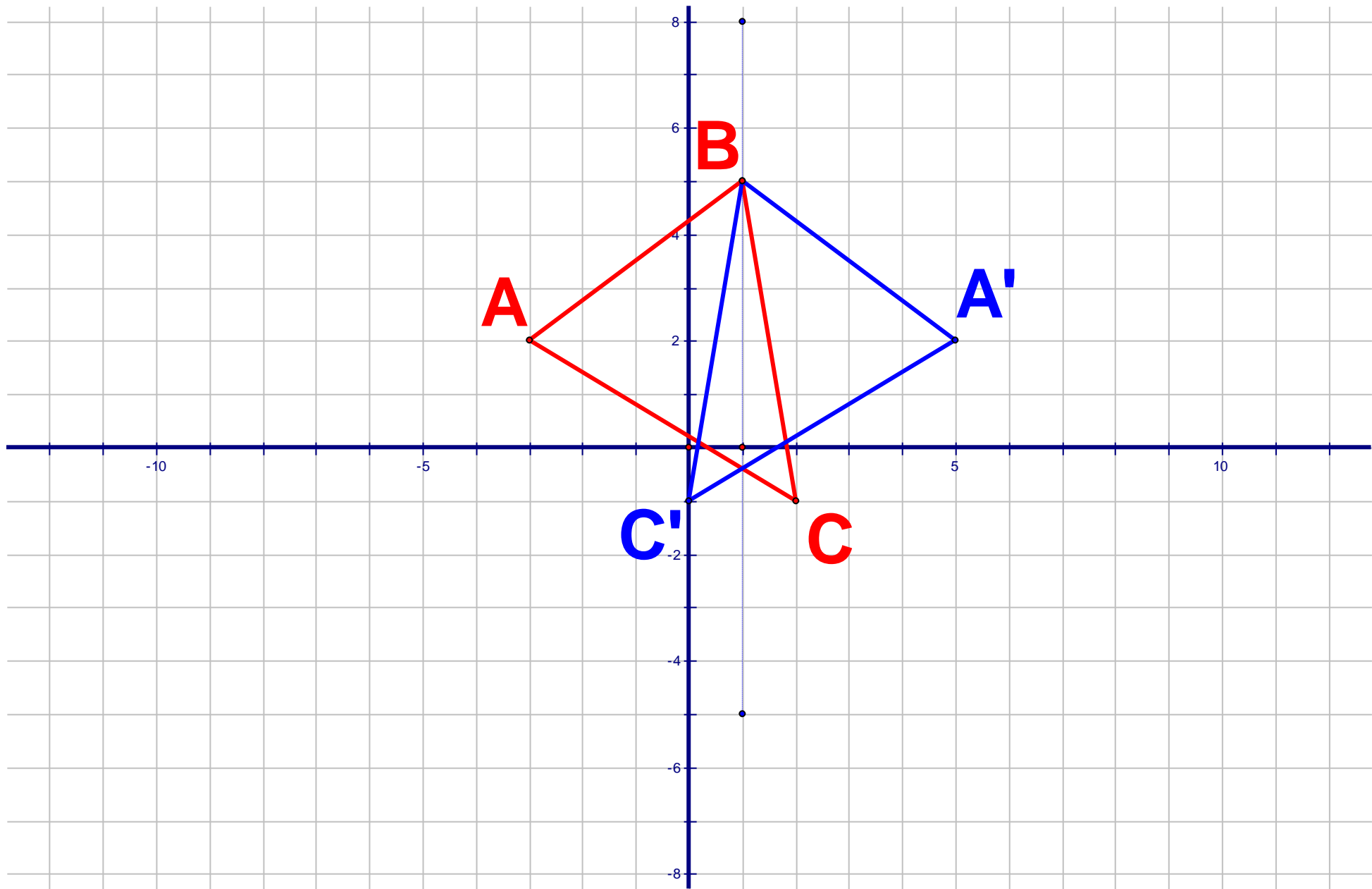
Triangle ABC has the following coordinates: A(-3, 2) B(1, 5) C(2, -1).

Reflect the triangle across the $x = -1$.

Hint 1: Graph the triangle.

Hint 2: Draw the line $x = -1$.
(It is a vertical line that crosses the x-axis at -1.)

Hint 3: Reflect the triangle.



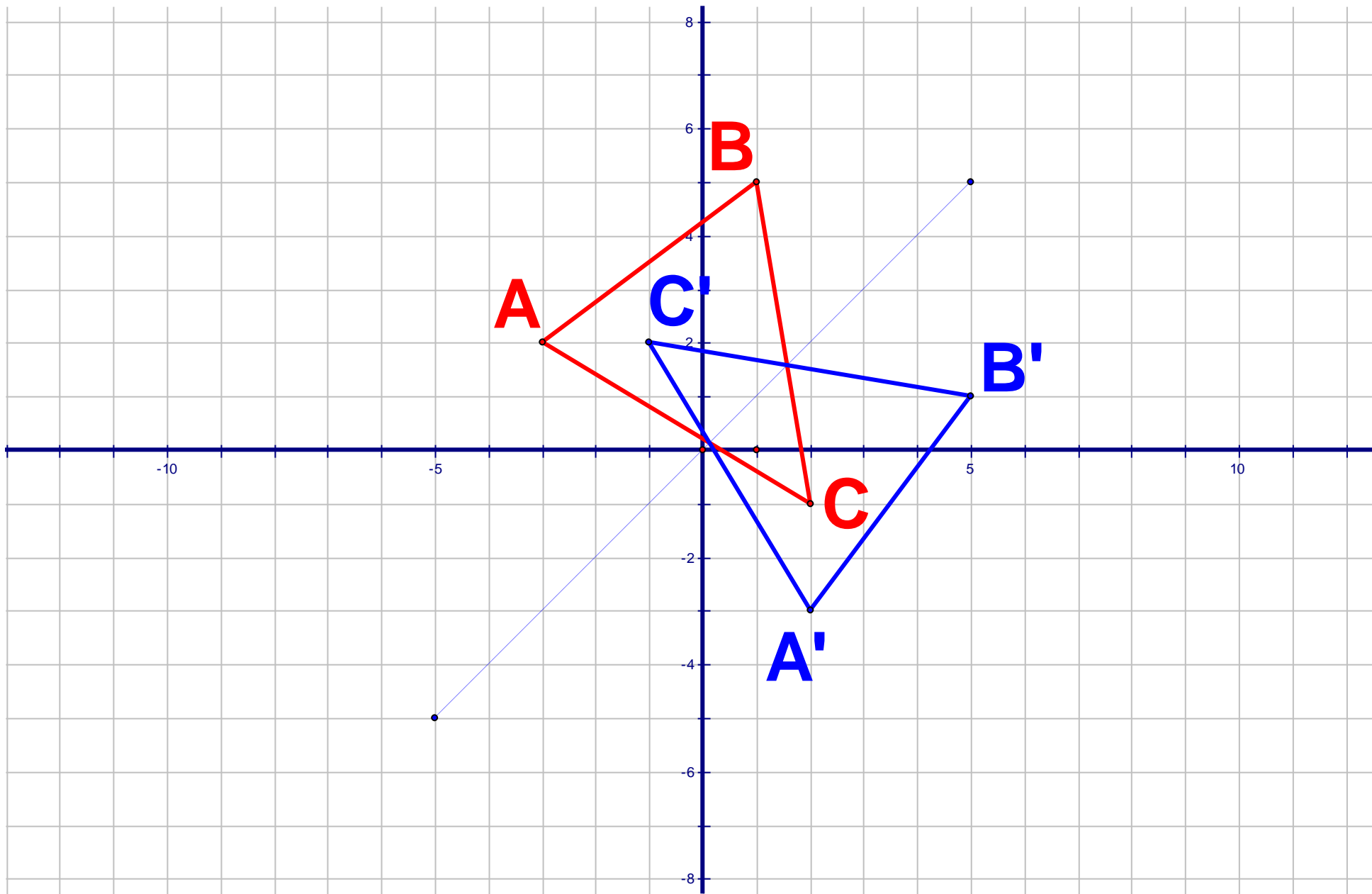
Triangle ABC has the following coordinates: A(-3, 2) B(1, 5) C(2, -1).

Reflect the triangle across the $y = x$.

Hint 1: Graph the triangle.

Hint 2: Draw the line $y = x$.
(It goes through the origin and has a slope of 1/1.)

Hint 3: Reflect the triangle.



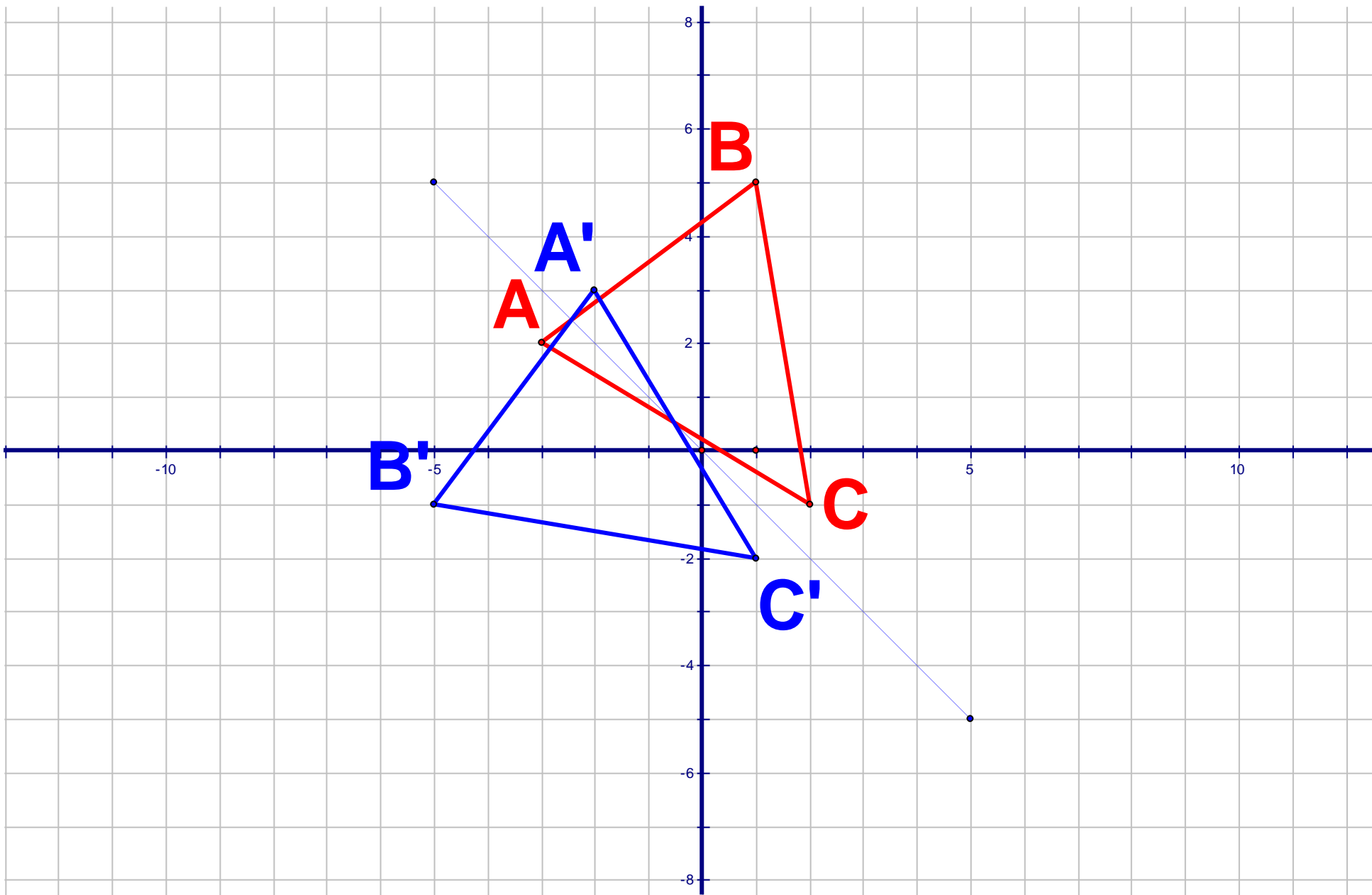
Triangle ABC has the following coordinates: A(-3, 2) B(1, 5) C(2, -1).

Reflect the triangle across the $y = -x$.

Hint 1: Graph the triangle.

Hint 2: Draw the line $y = -x$.
(It goes through the origin and has a slope of $-1/1$.)

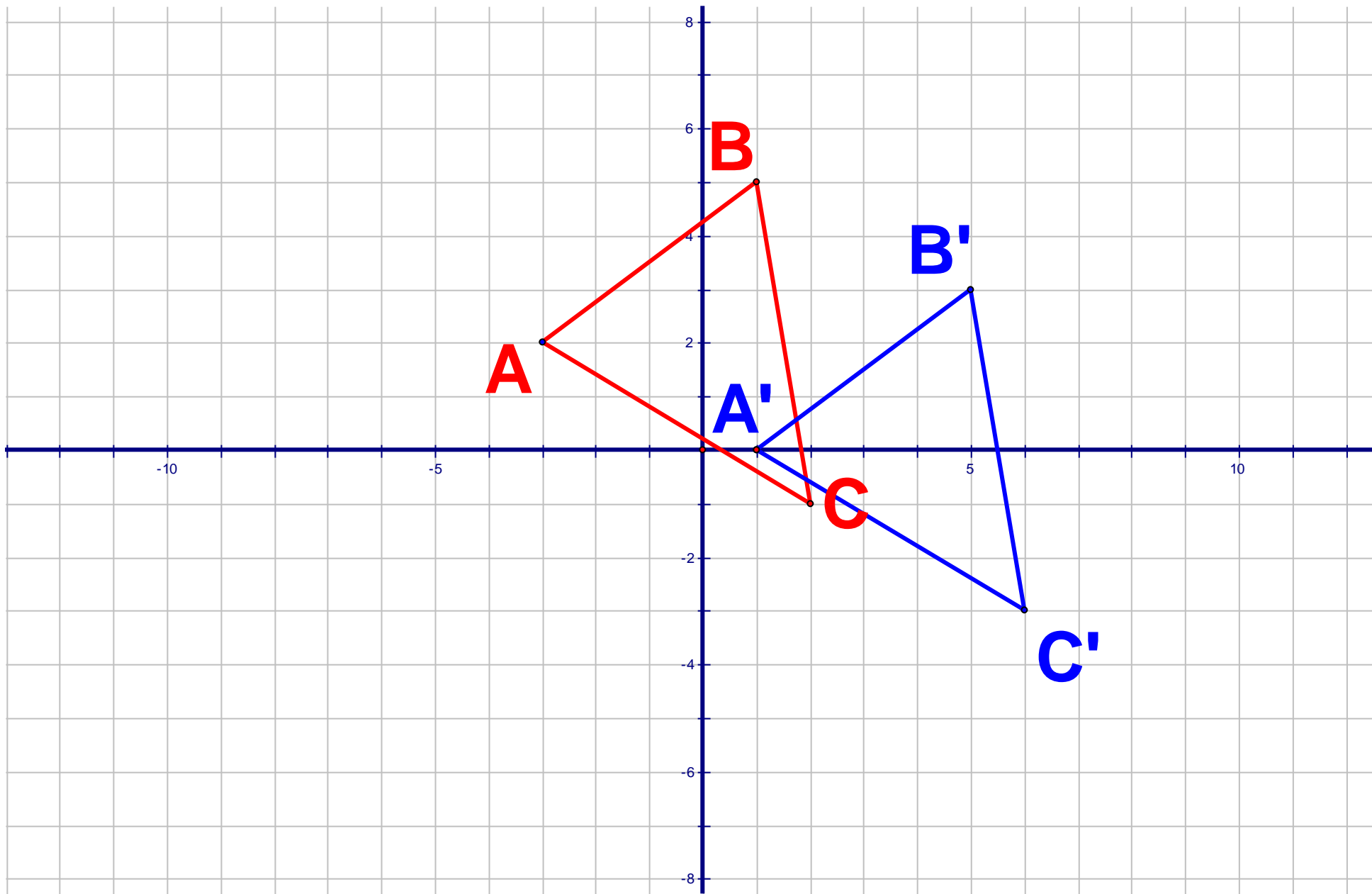
Hint 3: Reflect the triangle.



Triangle ABC has the following coordinates: $A(-3, 2)$ $B(1, 5)$ $C(2, -1)$.
Translate the triangle two units down and four units right.

Hint 1: Graph the triangle.

Hint 2: Take each point and move it two units down and four units right.



What does $(x + 3, y - 1)$ mean?

Translate three units to the right
and one unit down.