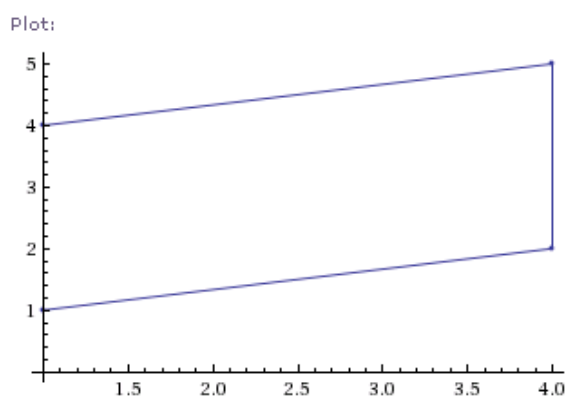


Conditions

Given ABCD with $A = (1, 1)$, $B = (4, 2)$, $C = (4, 5)$, and $D = (1, 4)$, what are the coordinates for Point D' if the y-axis is the reflecting line?

Solution

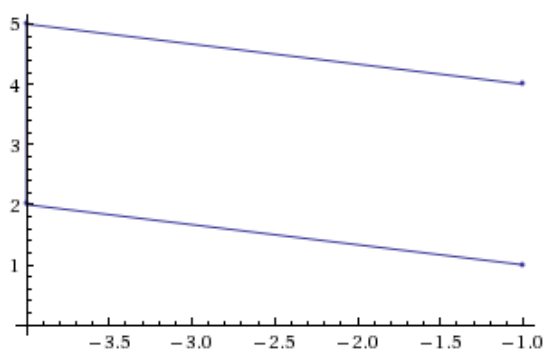
Consider the graph:



This is our quadrangle ABCD.

If y-axis is the reflecting line, then for all points of this quadrangle, y-coordinate will not change, x-coordinate changes its sign. That's why reflected figure will have the following coordinates:

$(1, 1)$, $(-4, 2)$, $(-4, 5)$, $(-1, 4)$, as shown on a graph below:



So, the coordinates of D' are $(-1, 4)$