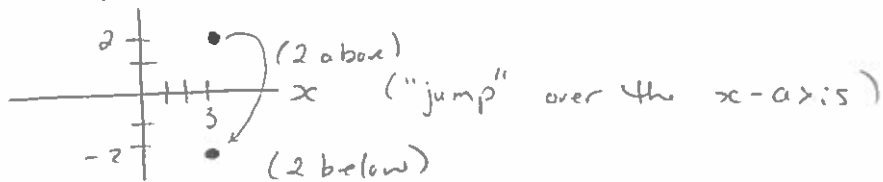


C: Reflections

- A mirror image of a point/figure about an axis/line.

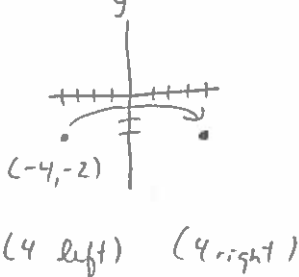
1. Find the coordinate after the given reflection.

a) $A(3, 2) \rightarrow$ reflection about x -axis



$$A'(3, -2)$$

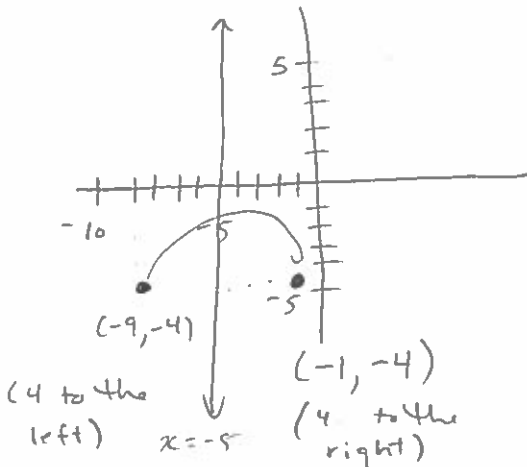
b) $B(-4, -2) \rightarrow$ reflection about the y -axis.



$$B'(4, 2)$$

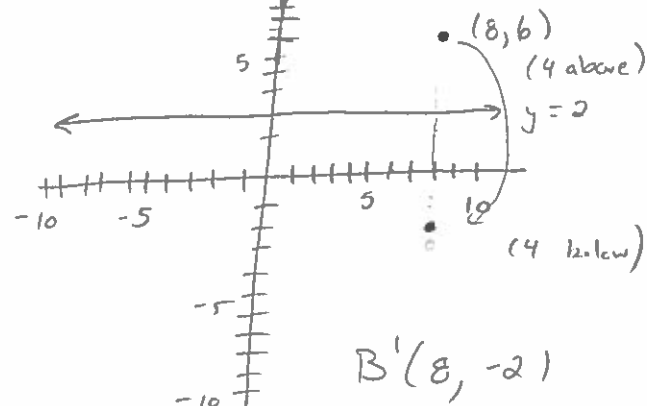
2. Find the coordinate after the given line reflection.

a) $A(-9, -4) \rightarrow x = -5$ * straight line where x will always be -5



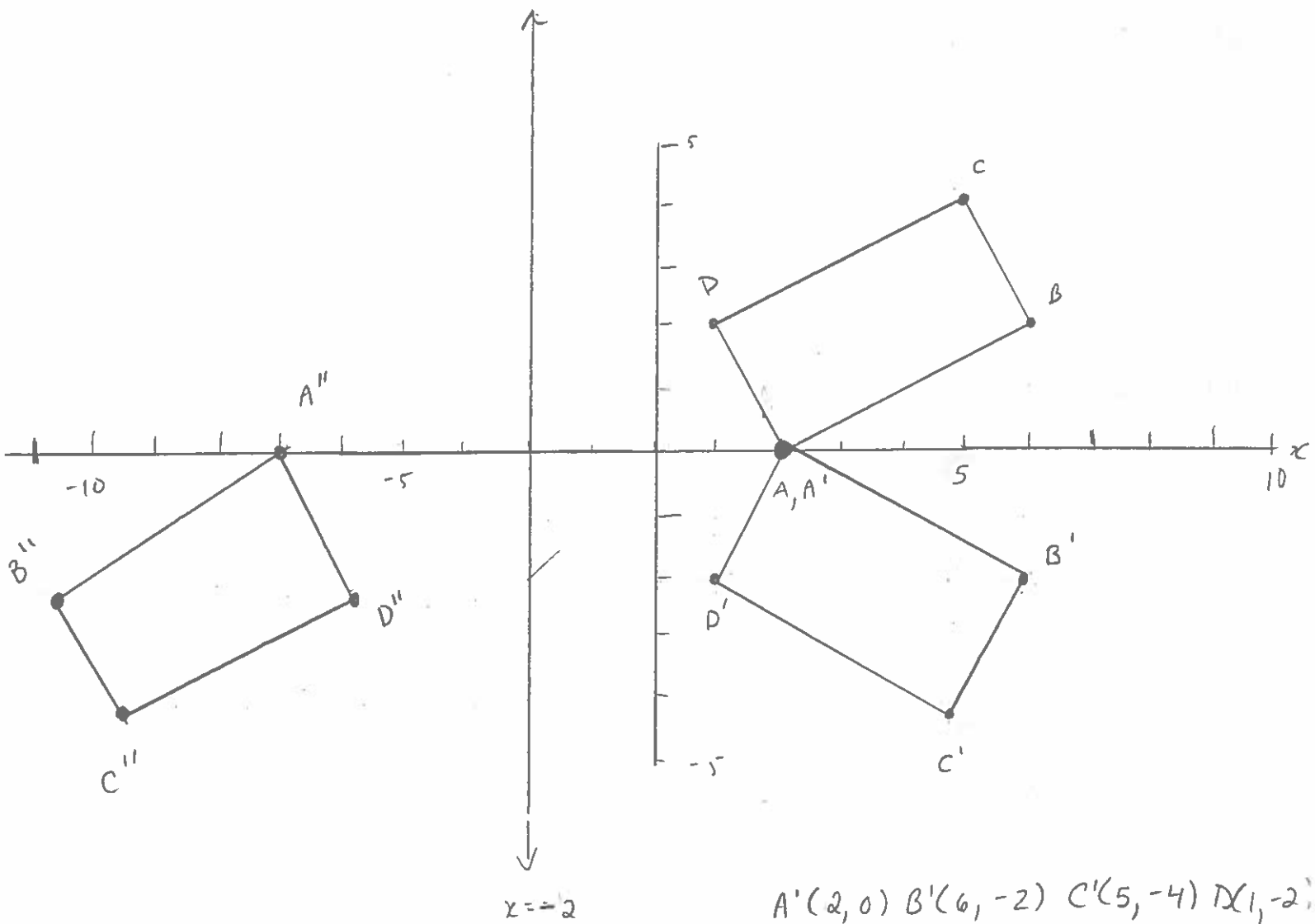
$$A'(-1, -4)$$

b) $B(8, 6) \rightarrow y = 2$



$$B'(8, -2)$$

2. A rectangle $A(2,0)$, $B(6,2)$, $C(5,4)$ and $D(1,2)$ is first reflected about the x -axis and then about $x = -2$. Show the original rectangle & the two reflected rectangles.



$A''(-7,0)$ $B''(-11,-2)$
 $C''(-10,-4)$ $D''(-6,-2)$

$A'(2,0)$ $B'(6,-2)$ $C'(5,-4)$ $D'(1,-2)$

Assign Pg 385 Handout # 3-6 (a,c,e), 7-9.