3.2 Midpoint of a Line Segment

Complete Investigation Handout with partner

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$

Midpoint formula: $$M = \left(\frac{(x_1 + x_2)}{2}, \frac{(y_1 + y_2)}{2}\right)$$

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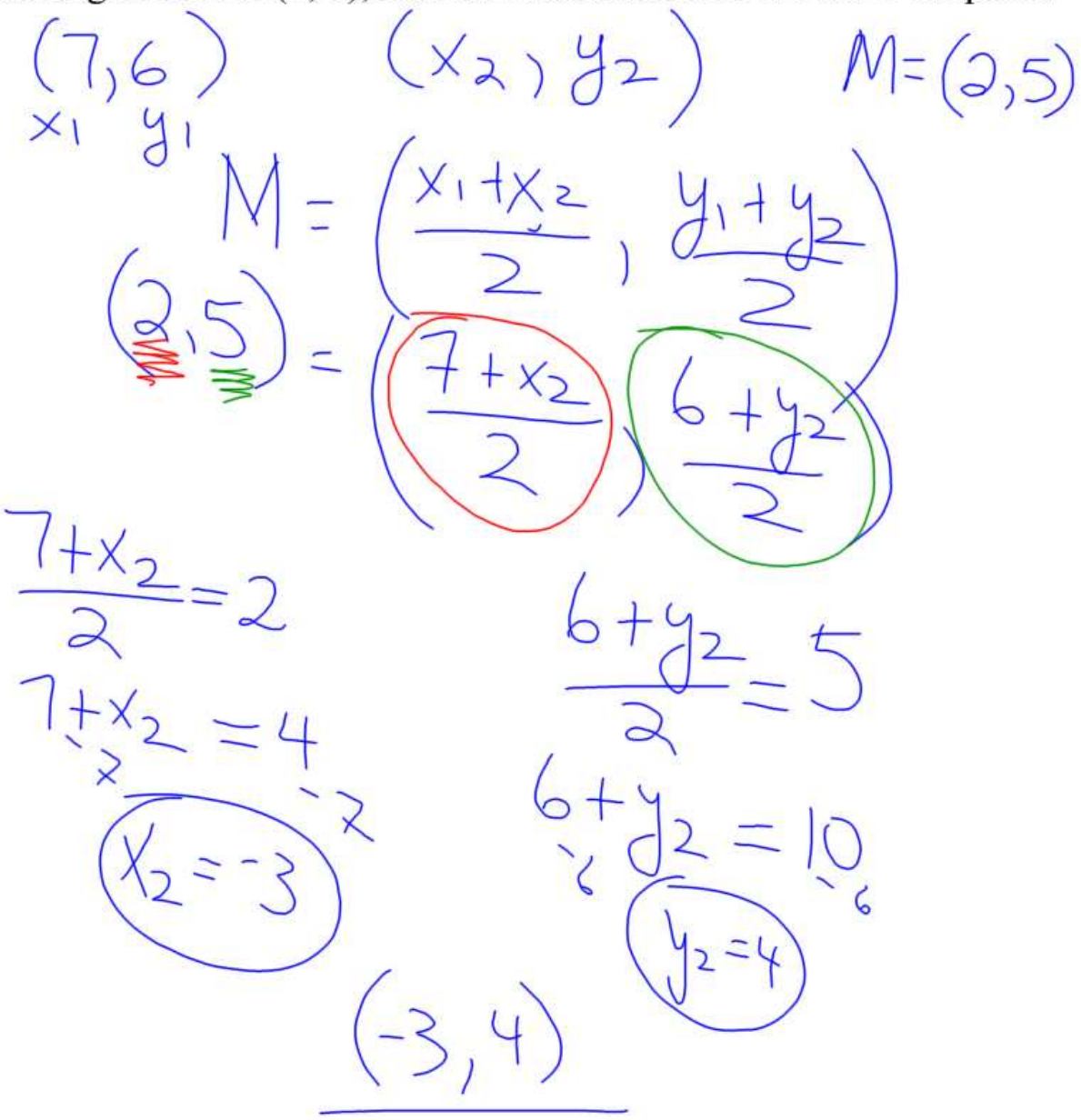
Determine the coordinates of the midpoint M on the line segment joining A(9,4) and B(1,2)

$$M = \left(\frac{9+1}{2}, \frac{4+2}{2}\right) = (5, 3)$$

Bonnyville is located at the coordiantes (-4,-1) and Cold Lake is located at the coordiantes (2,-7). If they want to build a 7 - Eleven half way between the two what would the coordiantes of the 7 - Eleven be?

One endpoint of a line segment is at (7, 6). The midpoint of the line segment is at (2, 5), find the coordinates of the other endpoint.



Assignment: Pg. 158 2 ac, 4, 5a, 9, 14, 15ac, 20