

Solve the equation. Check your solution. (Section B.1 and Section B.2)

1.  $-9x + 5x - 18 = 2$

2.  $5(2t - 5) - 6 = 9$

3.  $-5y = 8 - y$

4.  $3a - 8 = 2(6 - a)$

Use a table to solve the equation. Check your solution. (Section B.3)

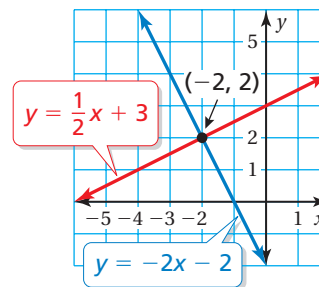
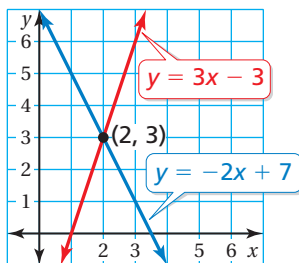
5.  $2x + 1 = 3x$

6.  $-7w - 4 = 2 - 4w$

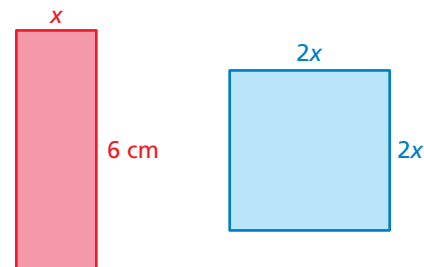
Use the graph to solve the equation. Check your solution. (Section B.3)

7.  $-2x + 7 = 3x - 3$

8.  $\frac{1}{2}x + 3 = -2x - 2$



9. The rectangles have the same perimeter. What is the area of the red rectangle? (Section B.2)



10. **PUZZLE** Sixteen more than 5 times the quantity of a number minus 6 is 20. Find the number. (Section B.1)

11. **WOOD** You cut a piece of wood into two smaller pieces so that one piece is 40 centimeters longer than the other piece. The longer piece is three times as long as the shorter piece. (Section B.3)

- What are the lengths of the pieces of wood?
- How long was the original piece of wood?



12. **BETTAS** An aquarium store sells red, blue, and orange bettas. There are 14 bettas in the store. Two bettas are orange. The number of blue bettas is 3 times the number of red bettas. Find the number of blue bettas in the store. (Section B.1)