

Name: _____

Date: _____

AIM: How do we solve equations with variables on both sides?

I. Solve for x and check

a. $-8x - 4 + 2x = 6$

b. $-8x - 4 = 2x + 6$

To Solve an Equation with Variables on Both Sides

1.) _____

2.) _____

3.) _____

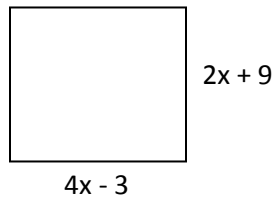
4.) _____

Solve for the variable and check

1. $7y + 9 = 3y - 19$ check	2. $7x + 8 = 4x + 17$ check
3. $-4w - 13 + 9w = -18 + 6w$ check	4. $-3(2x + 4) = -3 + 2(4x + 5)$ check

Application: Word Problem

5. A.) Find the value of x in the square below based on the information given.



B.) What is the area of the square?

C.) What is the perimeter of the square?

Extra Practice: Solving Multi-Step Equations

6.) $3c + 8c - 16 = 2c - c + 8$

7.) $w = 3 - (2w - 9)$

8.) $8(x + 1) = 4x - 8$

9.) $5(n - 4) = 3(n + 2)$



To remove an entire algebraic term (both the coefficient and the variable) from one side of the equal side to the other, we must _____ or _____ the entire term.