

**ALGEBRA II**  
**Chapter 1 section 3**  
**Solve Linear Equations**  
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**FOCUS:**

What are the steps for solving linear equations?

**VOCAB:**

*Equation:* \_\_\_\_\_

*Linear Equation:* \_\_\_\_\_

\_\_\_\_\_

*Solution:* \_\_\_\_\_

\_\_\_\_\_

*Equivalent Equations:* \_\_\_\_\_

**WARM – UP:**

Simplify the expression.

1.  $8b - 3(4 - b)$  \_\_\_\_\_

2.  $-6(m - 9) + 14m - 20$  \_\_\_\_\_

3. You bought a pair of jeans for  $n$  dollars in a city where the sales tax rate is 5%. Write an expression for the total cost of the jeans, including sales tax.

**NOTES:**

Solve and justify each line.

$$\frac{2}{3}x - 7 = 5$$

$$4x + 9 = 21$$

Your total cost for a book, including 6% sales tax, is \$23.32. What was the price of the book before the sales tax was added?

What is the solution of  $8y - 16 = 13y + 9$ ?

Solve.

$$4(2x - 9) + 5x = -3(10 - x)$$

It takes you 45 minutes to mow your lawn and it takes your brother 30 minutes to mow the lawn. How long does it take you to mow the lawn if you have two mowers and work together?

Let's see if you comprehended what we worked on in class...

Try \_\_\_\_\_ for homework