College Algebra

Name:

Chapter 2 Equations, Inequalities, and Problem Solving

Sec. 2.1 Linear Equations in One Variable, pp. 48 – 54

You are familiar with solving equations in one variable. Do the **VOCABULARY CHECK** on Pg. 54.

THINK ABOUT IT:

- > What is the difference between an expression and an equation?
- Fill in the blank with the term that correctly completes each statement, using either "solve" or "simplify":

0	We		expressions
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o We ______ equations.

Let's practice a few basic problems, then discuss ways to solve more challenging problems. We will finish with some special cases.

Some math "etiquette":

- ➤ If a decimal number is between -1 and 1, use 0 to the left of the decimal point to draw attention to the decimal.
- ➤ If a problem has fractions for terms, the answer goes in fraction form (unless it's an integer). The same rule applies to decimals in a problem.
- ▶ Do NOT write 5x as 5/3x. The variable is in the numerator of the first fraction, 3

but in the denominator of the second fraction. If you like using /, then you must write the term as (5/3)x.

Pg. 55 (4, 8, 10, 14, 16, 18, 22)

> For the next set of problems, please use the indicated method for solving:

(24, 26, 28, 32) Eliminate the denominators, first; then solve for the variable.

(30, 33, 34) Eliminate the decimal before solving.

Now, let's look at those special cases. What does it mean when we get an answer such as:

Practice: Pg. 55 (36, 38, 40, 42)

HAND-IN PRACTICE: Show all work!

The following problem set becomes progressively more challenging!