Chapter #8 Solving Linear Equations

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8.1 Solving Equations

equation: is a statement that 2 mathematical expressions have the same value

ex.
$$3x = -2$$
, $\frac{1}{2} = -2.7$

Name the parts of an expression:

term term term

1.2d +
$$3.5 = -1.6$$

coefficient variable constants.

Variable: a letter or symbol that represents an unknown or changing value

coefficient: a # that multiplies a variable ex 2x variable

turm: a #, a variable, or the product of #15 2 variables

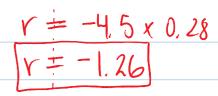
constant: a term in an expression or equation that is just on the constant

expression: a mathematical phrase that does Not have an 'equal' sign. ex. 3x2-2x+7 equation: a mathematical phrase that does have an equal sigh u = 2x - 7 = 1substitution: a specific value is assigned to a variable in an expression or equation ex. 3x+5 when x=1 Identify the following: coefficients. (a.) 2 - 10 variable constant coefficient variables When solving an equation, you need to find what # the variable is the RULE is: What you do to I side of the equal sign, you must do to the other side.

$$\frac{\text{Ex.}^{4}\lambda}{(a.)} - 1.2x = -3.96 \qquad (b.) \quad y = -4.5 \times 0.28$$

$$1x = 3.3$$

$$y = -4.5 \times 0.28$$



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(a.)
$$x + 2.4 = 6.5$$

-2.4 -2.4

(b)
$$15.2 = -7.3 + x$$

(d)
$$\frac{m^{\times 3}}{3} = -\frac{2}{5} \times 3$$

$$m \neq -6$$

$$m = -\frac{1}{5}$$

Check your answers using substitution!

$$(4) + 3 = 7$$

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