

Inbox - tdugger@ Unit 3 - Google D 3-1 Solving Literal Evolution Links - Evolution Part 2 b

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## 3-1 Solving Literal Equations

Objective: I can solve an equation with 2 or more variables for any specific variable in the equation.

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1 of 6

Note:

Literal equations - An equation that has 2 or more variables.

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1.  ~~$V = lwh$~~  solve for w.

$$\frac{V}{lh} = w$$

2 of 6

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2. ~~I = prt~~ Solve for t

$$\frac{I}{Pr} = rt$$

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Solve the following equations for y.

3.  $2y + 5x = 6$

$$\begin{aligned} & \cancel{5x} \quad -5x \\ 2y + & \frac{-5x}{2} + \frac{6}{2} \\ y = & -\frac{5}{2}x + 3 \end{aligned}$$

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$$4. \frac{4x - 4y = 1}{-4x}$$
$$\frac{-4y}{-4} = \frac{-4x + 1}{-4}$$
$$y = x - \frac{1}{4}$$

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$$5(x + y) = 10 + x$$

$$\begin{aligned} 5x + 5y &= 10 + x \\ -5x &\quad \quad \quad -5x \end{aligned}$$

$$\frac{5y}{5} = \frac{-4x + 10}{5}$$

$$y = -\frac{4}{5}x + 2$$

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$$\begin{array}{rcl} 6x + 3y - 12 & = & 18x \\ \cancel{6x} & & \cancel{-6x} \\ 3y - 12 & = & 12x \\ +12 & & +12 \\ \hline 3y & = & \frac{12x + 12}{3} \\ 3 & & 3 \\ y & = & 4x + 4 \end{array}$$

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$$7. \frac{2}{5}y - \frac{3}{5}x = -4$$

$$\begin{array}{rcl} 2y - 3x & -20 \\ + 3x & +3x \\ \hline \end{array}$$

$$\begin{array}{rcl} 2y &= 3x - 20 \\ 2 & 2 \\ y &= \frac{3}{2}x - 10 \end{array}$$

$$\frac{5}{1} \cdot \frac{2}{5} = \frac{5 \cdot 2}{1 \cdot 5} = \frac{2}{1}$$

$$\frac{5}{1} \cdot \frac{3}{5} = \frac{5 \cdot 3}{1 \cdot 5} = \frac{3}{1}$$

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$$8. \left( \frac{3}{4}x - \frac{1}{8}y \right) = \frac{1}{2}$$

~~$\cancel{\frac{1}{8}x} - y + 4$~~   
 ~~$-6x$~~   
 $\hline$   
 $-(-y = -6x + 4)$   
 ~~$y + 6x - 4$~~

$$4 \quad 8 \quad 2$$

$\frac{8}{1} \quad \frac{2}{1} \quad \frac{1}{1}$

$$\frac{8}{1} \quad \frac{2}{1} \quad \frac{1}{1}$$

$$\frac{8}{1} \quad \frac{2}{1} \quad \frac{1}{1}$$

$$\frac{8}{1} \cdot \frac{3}{4} = \frac{8 \cdot 3}{1 \cdot 4} = \frac{6}{1}$$

$$\frac{8}{1} \cdot \frac{1}{8} = \frac{8 \cdot 1}{1 \cdot 8} = \frac{1}{1}$$

$$\frac{8}{1} \cdot \frac{1}{2} = \frac{8 \cdot 1}{1 \cdot 2} = \frac{4}{1}$$

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- HMK: Textbook page 28-29 # 5 - 16.

