

8-24-15

Solving Literal Equations
More than 1 variable

⑪ $2(m+3) - 1 = 8 + 3m$
 $2m + 6 - 1 = 8 + 3m$
 $\frac{2m}{-2m} + 5 = 8 + \frac{3m}{-2m}$
 $\frac{5}{-8} = \frac{8}{-8} + m$
 $-3 = m$

Aug 18-12:57 PM

Aug 24-9:36 AM

<p style="text-align: center; border: 1px solid red; display: inline-block; padding: 2px;">Solve for x</p>	<p style="text-align: center; border: 1px solid red; display: inline-block; padding: 2px;">Solve for y</p>
<p>1) $-x - 7y = 10$ $-x = 7y + 10$ $x = -7y - 10$</p> <p>2) $6x + 3y = -15$ $6x = -3y - 15$ $x = -\frac{1}{2}y - \frac{5}{2}$</p> <p>3) $4x - 2y = -20$ $4x = 2y - 20$ $x = \frac{1}{2}y - 5$</p> <p>4) $x - y = 7$ $x = y + 7$ $x = y + 7$</p> <p>5) $8x + y = 3$ $8x = -y + 3$ $x = -\frac{1}{8}y + \frac{3}{8}$</p>	<p>6) $-x - 7y = 10$ $-7y = 1x + 10$ $y = -\frac{1}{7}x - \frac{10}{7}$</p> <p>7) $6x + 3y = -15$ $3y = -6x - 15$ $y = -2x - 5$</p> <p>8) $4x - 2y = -20$</p> <p>9) $x - y = 7$ $-y = -x + 7$ $y = x - 7$</p> <p>10) $8x + y = 3$</p>

Sep 22-10:17 AM

Solve for the indicated variable

11) $F = \frac{mv^2}{r} \cdot r$ for v^2 $\frac{Fr}{m} = mv^2$
 $\frac{Fr}{m} = v^2$

12) $E = \frac{mgh}{mh}$ for g $\frac{E}{mh} = g$
 $\frac{E}{mh} = g$

13) $V = \frac{M}{D} \cdot D$ for V $\frac{VD}{D} = \frac{M}{D}$ $V = \frac{M}{D}$

14) $C = \frac{95}{9}(F - 32)$ for F
 $\frac{9}{5}C = F - 32$
 $\frac{9}{5}C + 32 = F$
 $\frac{9}{5}C + 32 = F$

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Conclusion

1. What is the first thing you are going to do?
Look to see what you are solving for.
2. How do you use PEMDAS to solve a literal equation? *Backwards*
3. Questions???

Aug 18-1:24 PM

Assignment

Literal Equation Wkst

Aug 24-8:09 AM

Solving Literal Equations

Solve the following equations for x. Solve the following equations for y.

- | | |
|--------------------|--------------------|
| 1. $7x + y = 2$ | 5. $7x + y = 2$ |
| 2. $x - 4y = -3$ | 6. $x - 4y = -3$ |
| 3. $-2x - 5y = -1$ | 7. $-2x - 5y = -1$ |
| 4. $3x + 2y = 4$ | 8. $3x + 2y = 4$ |

Solve the following formulas for the given variable.

- | | |
|------------------------------------|-------------------------------------|
| 9. $V = \frac{\pi R^2 h}{3}$ for h | 11. $h = \frac{3P}{w}$ for w |
| 10. $P = 2l + 2w$ for w | 12. $L = \frac{3MP^2}{Q}$ for P^2 |

Aug 19-4:26 PM

Aug 26-8:58 AM