

Sec1H**HW 1-7
Literal Equations**

#1-4: Use the following formula and solve for the indicated variable.

$$k = r + xyz$$

1. Solve for r .

2. Solve for x .

3. Solve for y .

4. Solve for z .

#5-7: Use the values given to calculate the indicated variable.

5. If $r = 5$, $x = 3$, $y = 1$, and $z = 6$. what is k ?

6. If $k = 20$, $r = 2$, $x = 2$, and $z = 3$. what is y ?

7. If $k = 30$, $r = 24$, $y = 3$, and $z = 4$. what is x ?

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#8-9: Put into slope-intercept form. (Solve for y.)

8. $5x - 15y = 60$

9. $-3x + 2y = -12$

#10-13: Solve for the indicated variable.

10. $b = r - w$, for w .

11. $h = \frac{c}{y}$, for y .

12. $t = g + kp$, for p .

13. $s = h + y - z$, for z .

23	3	$y = \frac{c}{h}$	$r = k - xyz$	$w = -b + r$
$x = \frac{k-r}{yz}$	$z = -s + h + y$	$y = \frac{1}{3}x - 4$	$p = \frac{t-g}{k}$	
$\frac{1}{2}$	$y = \frac{k-r}{xz}$	$z = \frac{k-r}{xy}$	$y = \frac{3}{2}x - 6$	

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