In the exercises #1-6, solve the literal equation for y.

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1. $4x + y = 7$	2. $3y - 15x = 12$
3. $10x - 2y = 46$	4. $7x - y = 13$
<u> </u>	1
$5. \ 4x + 1 = 9x + 4y$	*6. $3 + \frac{1}{5}y = 2x + 4$

In the exercises #7-10, solve the literal equation for x.

7. y = 5x - 2x	8. y = x + 9x
9. b = 3x + 9xy	*10. $m = 9 + 3x - dx$

In the exercises #11-16, solve the formula for the indicated variable.

In the exercises #11-16, solve the formu	na for the indicated variable.
11. Force: $f = ma$; for m	12. Volume of a cylinder: $V = \pi r^2 h$; for h
13. Perimeter of a triangle: $P = a + b + c$; For b	14. Linear equation: $ax + by = c$; for y
*15. Slope of a line: $m = \frac{y_2 - y_1}{x_2 - x_1}$; for y ₂	*16. Surface area of a Rectangular Prism: $S = 2(lh + lw + wh)$; for w

- **17.** The total cost C (in dollars) to participate in a triathlon series is given by the literal equation C = 90x + 35, where x is the number of triathlons in which you participate.
 - a) In your own words, how much money does it cost to register for the triathlon series?
 - **b)** Solve the equation for x.
 - **c)** In how many triathlons do you participate if you spend a total of \$305?
 - **d)** If your maximum annual triathlon cost is \$1000, what is the maximum number of triathlons in which you could participate?
- **18.** Describe the error to the right.