Solve for the unknown in each of the following:

1. $5x - 3 = 7$

2. $3 = 25t^2 - 13$

3. $5(4)^2 + 2b = 5$

4. $5 - \frac{4}{7}a = 12$

5. $\frac{8x}{5x-4} = 7$

6. $t^2 + t - 6 = 0$

7. $\frac{5.4}{x} - 4.3 = 7.2$

8. $5.1t - d = 3$
$3.3d - 2.4t = 9$

9. $4 = \frac{v^2-(a)^2}{2(9.8)}$ **where** $a = -7.2$

10. $\frac{2x^2-5}{2x-5} = x + 3$

6 Practice • • • • • • • • • • • • Solving More Equations

Directions: Solve the following literal equations for the indicated variable.

1. $c + d + y = b$ Solve for y. _____
2. $tx = a + b$ Solve for x. _____
3. $sm + w = p$ Solve for m. _____
4. $x - t = r$ Solve for x. _____
5. $\frac{x}{b} = a$ Solve for x. _____
6. $x + y = w$ Solve for x. _____
7. $dx = b$ Solve for x. _____
8. $x + b = p$ Solve for x. _____
9. $h = wx$ Solve for x. _____
10. $cy = d - a$ Solve for y. _____
11. $A = lw$ Solve for l. _____
12. $d = rt$ Solve for t. _____
13. $bx + y = z$ Solve for x. _____
14. $cr + s = t$ Solve for r. _____
15. $\frac{ab}{c} = d$ Solve for b. _____
16. $\frac{rs}{t} = v$ Solve for s. _____
17. $w = x + yz$ Solve for z. _____
18. $c^2 = a^2 + b^2$ Solve for b. _____

19. The formula for finding the circumference of a circle with radius r is $C = 2\pi r$. Find the value of r ($\pi = 3.14$).

    _____

20. The formula for finding the perimeter of a rectangle with length l and width w is $P = 2l + 2w$. Find the value of w.

    _____