

Solving Equations Review Sheet

Solve each equation for x . Remember: an equation is “solved for x ” when x is by itself on one side of the equation, and does not appear at all on the other side of the equation.

1) $3(2x+2) - 2(7-x) = x+3$

2) $4\sqrt{5x-2} = 48$

3) $2(x+3) + 5(x-2) = 10-x$

4) $\frac{4x^2-15}{3} = 7$

5) $\frac{7-x}{5} = \frac{3}{4}$

6) $\frac{3x}{4} = \frac{x+1}{6}$

7) $\frac{3}{x} - 4 = 8$

8) $\frac{3}{x} = \frac{6}{x-2}$

9) $\frac{4}{x} = \frac{x}{9}$

10) $\frac{1}{2x} + \frac{3}{4x} = 5$

11) $|12x-6| = 6$

12) $|3-2x| + 2 = 11$

13) $14 + 2|3x+5| = 26$

14) $4|x-10| - 23 = 37$

15) $abxc = dx^2e$

16) $y = mx + b$

17) $\frac{F}{x} = 4kx$

18) $3x - d = m$