

Solving for X Week 2

Solve each equation.

1) $\frac{|4 - 3n|}{5} = 1$

2) $\frac{|2 - 7x|}{5} = 3$

3) $\frac{|4v - 9|}{6} = 5$

4) $10(p - 8) = -5(8p - 8) - 10p$

5) $5n - 8n = -8(-10 + 7n) + 6(9n - 10)$

6) $-4(m - 10) + 8m = -6(2m + 12)$

7) $-3a + 2(3a + 3) = -2(-3a + 12)$

8) $-5(5p + 1) = 5(p - 1)$

Solve each equation by factoring.

9) $35p^2 - 30p + 9 = 2p + 4$

10) $11k^2 - 33k + 18 = 2k^2$

11) $5x^2 + 20x + 2 = -2x - 6$

12) $5v^2 + v = 0$

Solve each equation by taking square roots.

13) $2b^2 - 10 = 688$

14) $25x^2 - 2 = 7$

Solve each equation with the quadratic formula.

15) $10a^2 - 4a = 4$

16) $8x^2 - 10x = -10$

Solve each equation. Remember to check for extraneous solutions.

17) $\frac{2}{n} = \frac{1}{2n} + 3$

18) $\frac{5}{3x^2 - 3x} = \frac{1}{3x^2 - 3x} + \frac{1}{3x}$

19) $\frac{a + 1}{18a} = \frac{a + 5}{18a} - \frac{1}{3}$

20) $1 = \frac{6}{n + 1} - \frac{n + 6}{n + 1}$