

## Chapter A Lesson 2 - Solving Equations Part 1

**Solve each equation.**

1)  $x - 8(-8x - 1) = 8 - 6x$

2)  $2v - 33 = -4(1 - 7v) - 3$

3)  $-(8n - 4) = -2(7 + n)$

4)  $2(2x - 4) + 4(6 - 3x) = -7x + x$

5)  $-10 - 9|-5 - 3n| = -55$

6)  $3|8k - 6| - 2 = 112$

7)  $5|-4x + 8| + 5 = 85$

8)  $7|3n + 9| - 1 = 20$

**Solve each equation by factoring.**

9)  $m^2 + 4 = -5m$

10)  $n^2 - 8n = 0$

11)  $x^2 = -4x$

12)  $r^2 + 4r = 12$

**Solve each equation. Remember to check for extraneous solutions.**

13)  $45 = 5\sqrt{3 - 13r}$

14)  $\sqrt{2p - 95} = \sqrt{\frac{p}{10}}$

15)  $-4 = -2\sqrt{2p}$

16)  $\sqrt{4n + 1} = 5$

17)  $-5 + \sqrt{-6 - n} = -3$

18)  $3 = \sqrt{8m} - 5$