

Solve each radical equation. Check your solution.

~~1. $\sqrt{x} + 3 = 5$~~

~~2. $\sqrt{t} + 2 = 9$~~

3. $\sqrt{s} - 1 = 5$

~~4. $\sqrt{n} + 7 = 12$~~

5. $\sqrt{a - 6} = 3$

~~6. $\sqrt{z} - 7 = 3$~~

11. $\sqrt{7v - 4} = \sqrt{5v + 10}$

13. $\sqrt{n + 5} = \sqrt{5n - 11}$

21. $x = \sqrt{2x + 3}$

22. $n = \sqrt{4n + 5}$

Simplify each expression.

62. $\sqrt{20} + \sqrt{45}$

63. $\sqrt{3}(\sqrt{6} + 4)$

Factor each expression.

74. $x^2 + 10x - 24$

75. $m^2 - 14m + 13$

76. $b^2 + 16b - 36$

~~77. $2p^2 + 15p + 7$~~