

Name _____
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Date _____
Algebra II



Solving Radical Equations

Solve the following radical equations and CHECK each solution

1. $\sqrt{2x+1} + 4 = 8$

2. $\sqrt{x-5} + x = 7$

3. $\sqrt{56-x} = x$

4. $\sqrt{2x-7} + x = 5$

$$5. \sqrt{5x+29} = x+3$$

$$6. \sqrt{2x-4} = x-2$$

$$7. \sqrt{x^2+x-1} + 11x = 7x+3$$

$$8. 3\sqrt{x} - 2x = -5$$

$$9. \sqrt{49-10x} + 5 = 2x$$

$$10. \sqrt{4x+1} = 11-x$$

$$11. \sqrt{x} - 1 = \sqrt{x - 10}$$

$$12. \sqrt{x} - 3 = \sqrt{x - 9}$$

$$13. \sqrt{9x} + 2 = \sqrt{7x + 18}$$

$$14. \sqrt{2x} - 3 = \sqrt{10x + 11}$$

$$15. \sqrt{5x} - \sqrt{9x - 9} = 1$$

$$16. \sqrt{9 - x} - \sqrt{2x} = 3$$