HONORS – SOLVING RADICAL EQUATIONS PRACTICE II   Name:

Solve each radical equation. **CHECK FOR EXTRANEOUS SOLUTIONS.**

1. $3\sqrt{x} + 3 = 15$

2. $4\sqrt{x} - 1 = 3$

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

4. $\sqrt{3x + 4} = 4$

5. $\sqrt{2x + 3} - 7 = 0$

6. $\sqrt{6 - 3x} - 2 = 0$

9. $3(x - 2)^{\frac{3}{4}} = 24$

10. $3(x + 3)^{\frac{3}{4}} = 81$

11. $(x + 1)^{\frac{3}{2}} - 2 = 25$

12. $3 + (4 - x)^{\frac{3}{2}} = 11$

15. $\sqrt{11x + 3} - 2x = 0$

16. $(5x + 4)^{\frac{1}{2}} - 3x = 0$

17. $\sqrt{3x + 13} - 5 = x$

18. $\sqrt{x + 7} + 5 = x$

19. $(x + 3)^{\frac{1}{2}} - 1 = x$

20. $(5 - x)^{\frac{1}{2}} = x + 1$