



NAME _____

Module 18 Solving Radical Equations
Lesson 2 Solving Multi-Step Radical Equations

Solve.

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| 1. $\sqrt{x} - 1 = 10$ $x = 121$ _____ | 2. $\sqrt{t} + 2 = 4$ $t = 4$ _____ |
| 3. $3\sqrt{k} = 12$ $k = 16$ _____ | 4. $5\sqrt{a} = 30$ $a = 36$ _____ |
| 5. $\frac{1}{2}\sqrt{x} = 5$ $x = 100$ _____ | 6. $-2\sqrt{b} = -6$ $b = 9$ _____ |
| 7. $2\sqrt{h} = -8$ no solution _____ | 8. $-\frac{1}{4}\sqrt{b} = -3$ $b = 144$ _____ |
| 9. $-5\sqrt{r} = 40$ no solution _____ | 10. $\frac{3}{4}\sqrt{w} = 9$ $w = 144$ _____ |
| 11. $\sqrt{4x} = 8$ $x = 16$ _____ | 12. $\sqrt{6t} = 3$ $t = \frac{3}{2}$ _____ |
| 13. $\sqrt[3]{9g} + 2 = 5$ $g = 3$ _____ | 14. $4\sqrt[3]{f+2} = 20$ $f = 123$ _____ |
| 15. $\sqrt{3x} + 5 = 3$ no solution _____ | 16. $\sqrt[3]{2v-1} = 2$ $v = \frac{9}{2}$ _____ |
| 17. $\sqrt{2x-5} = 7$ $x = 27$ _____ | 18. $\frac{\sqrt{s+2}}{4} = 3$ $s = 142$ _____ |
| 19. $\sqrt[3]{3x} + 5 = 2$ $x = -9$ _____ | 20. $\frac{2\sqrt{x-2}}{3} = 4$ $x = 38$ _____ |
| 21. $\sqrt{5x+6} + 6 = 22$ $x = 50$ _____ | 22. $\sqrt[3]{4g} + 3 = 9$ $g = 54$ _____ |

