

11-3 Skills Practice

Radical Equations

Solve each equation. Check your solution.

1. $\sqrt{f} = 7$

3. $\sqrt{5p} = 10$

5. $2\sqrt{2} = \sqrt{u}$

7. $\sqrt{g} - 6 = 3$

9. $\sqrt{2c - 1} = 5$

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

13. $\frac{\sqrt{d}}{3} = 4$

15. $x = \sqrt{x + 2}$

17. $\sqrt{6x - 9} = x$

19. $\sqrt{x + 5} = x - 1$

21. $\sqrt{r - 3} + 5 = r$

23. $\sqrt{5n + 4} = n + 2$

Column 1
Required Problems

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All work on Loose-leaf

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

4. $\sqrt{4y} = 6$

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

8. $\sqrt{5a} + 2 = 0$

10. $\sqrt{3k - 2} = 4$

12. $\sqrt{4x - 4} - 4 = 0$

14. $\sqrt{\frac{m}{3}} = 3$

16. $d = \sqrt{12 - d}$

18. $\sqrt{6p - 8} = p$

20. $\sqrt{8 - c} = c - 8$

22. $\sqrt{y - 1} + 3 = y$

24. $\sqrt{3z - 6} = z - 2$

ALWAYS:

- Check solutions, there may be a false one (EXTRANEUS)
- SIMPLIFY RADICALS

Column 2
Bonus Problem
DO AFTER YOU FINISH Required Problems

Look Steps:

- ① GET RADICAL term by itself
- ② Square both sides