Lesson 10.4 Practice: Solving Radical Equations

School Launch · Algebra I · Unit 10: Radicals · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Solve and check: $\sqrt{4x + 13} = 5$. EASY

2. Solve and check: $\sqrt{x + 9} = 4$. EASY

3. Solve and check: $\sqrt{5x - 1} = 3$. EASY

4. Solve and check: $\sqrt{x + 10} + 1 = 5$. MEDIUM

5. Solve and check: $\sqrt{5x + 11} + 6 = 12$. MEDIUM

6. Solve and check: $\sqrt{4x + 5} + 5 = 12$. MEDIUM

7. Solve and check: $\sqrt{x + 4} + 4 = 8$. MEDIUM

8. Solve and check: $\sqrt{5x + 10} + 5 = 10$. HARD

9. Solve and check: $\sqrt{5x + 1} + 5 = 9$. HARD

10. Solve and check: $\sqrt{2x + 16} + 3 = 9$. HARD