Lesson 6.4 Practice: Radical Functions and Their Graphs

School Launch · Algebra II · Unit 6: Radicals and Rational Exponents · Worksheet A

Calculator for decimals

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. Give the domain and range of $f(x) = \sqrt{x - 1} - 2$, and its starting point. EASY

2. Give the domain and range of $f(x) = \sqrt{x - 1} - 4$, and its starting point. EASY

3. Give the domain and range of $f(x) = \sqrt{x + 2} - 2$, and its starting point. EASY

4. Give the domain and range of $f(x) = \sqrt{x + 3} - 2$, and its starting point. MEDIUM

5. Give the domain and range of $f(x) = \sqrt{x - 6} - 3$, and its starting point. MEDIUM

6. Give the domain and range of $f(x) = \sqrt{x - 5} + 4$, and its starting point. MEDIUM

7. Give the domain and range of $f(x) = \sqrt{x - 5} - 2$, and its starting point. MEDIUM

8. Evaluate $f(x) = \sqrt[3]{x + 4} + 5$ at $x = 4$. HARD

9. Evaluate $f(x) = \sqrt[3]{x + 2} - 1$ at $x = -1$. HARD

10. Evaluate $f(x) = \sqrt[3]{x + 1} + 6$ at $x = 26$. HARD