Lesson 4.4 Practice: Domain and Range

School Launch · Algebra I · Unit 4: Relations and Functions · 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. State the domain and range of $\{(-3, 2), (-3, -4), (2, 2), (2, -1)\}$. EASY

2. State the domain and range of $\{(4, -1), (4, -3), (3, -5), (2, -1)\}$. EASY

3. State the domain and range of $\{(4, -1), (1, -5), (0, -2), (-1, 2)\}$. EASY

4. Find the domain and range of $f(x) = \sqrt{x + 3} + 6$. MEDIUM

5. Find the domain and range of $f(x) = \sqrt{x + 1} + 6$. MEDIUM

6. Find the domain and range of $f(x) = \sqrt{x + 5} + 6$. MEDIUM

7. Find the domain and range of $f(x) = \sqrt{x + 3} + 2$. MEDIUM

8. Find the domain and range of $f(x) = (x - 3)^2 - 1$. HARD

9. Find the domain and range of $f(x) = -(x - 2)^2 - 4$. HARD

10. Find the domain and range of $f(x) = (x - 2)^2 + 3$. HARD