

Math 151 - Quiz 1

August 26, 2015

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (2 points) Is this relation a function? Explain.

$$\{(0, 1), (1, 1), (2, 3), (3, 7), (4, 5), (1, 1)\}$$

2. (2 points) What is the implied domain of the function $f(x) = 3 + \sqrt{x + 4}$?

3. (3 points) Write the relation $\frac{3x + 5y}{4} = 3$ as a function of x . Then state the domain and range.

4. (3 points) Compute and simplify $g(x + a) - g(x)$ for $g(x) = x^2 + 3x$.