

Math 1513 - College Algebra

Quiz #6 - 2008.10.07

Name: _____

1. Decide whether each of the following relations defines a function.

a) $f = \{(2, 2), (3, 2), (-1, 2), (-2, 2)\}$

b) $g = \{(2, 1), (2, 2), (-1, 2), (-2, 2)\}$

c) $h = \{(blue, 2), (3, blue), (-1, green), (orange, 2)\}$

d) $i = \{(blue, red), (red, blue), (yellow, green), (orange, yellow)\}$

e) $j = \{(blue, red), (red, blue), (yellow, green), (red, yellow)\}$

2. State the domain of each of the following functions.

a) $f = \sqrt{x-1}$

b) $g = \frac{x+1}{\sqrt{x-1}}$

c) $h = x^2 + 3x - 1$

d) $i = \{(blue, red), (red, blue), (yellow, green), (orange, yellow)\}$

e) $j = \frac{1}{4x^2+2}$