

Math 1513 - College Algebra

Quiz #7 - 2008.10.09

Name: _____

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

a) $f = \{(a, b), (c, d), (e, f), (g, h)\}$

b) g is the relation which assigns to a person x their mother y .

c) h is the relation which assigns to a person x their child y .

d) $x^2 + y^2 = 1$

e) $3x - 5y = 6$

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

a) $f = \{(a, b), (c, d), (e, f), (g, h)\}$

b) $g = x^2 + 1$

c) $h = x + \frac{1}{x}$

d) $i = \sqrt{1 - x^2}$

e) $j = \frac{1}{x-1}$