

Bronx Community College, CUNY

MTH30 Pre Calculus

Quiz 2

Do any three (3) problems.

Name: _____

1. Determine the *domain* and the *range* of the relation:

$(g,1), (k, \frac{1}{2}), (m,0), (f,1), (a,-3)$

Domain:

Range:

2. Determine whether the given relation is a *function*. Explain why.

(a) $(g,1), (k, \frac{1}{2}), (m,0), (f,1), (k,3), (a, -3)$

(b) (Tom, 1976), (Kevin, 1987), (Melody, 2001), (Katrina, 1990), (Steve, 1959), (Alex, 2010)

3. Determine if the given equation represents a *function*. Explain why.

(a) $3x^2 + 5y^2 = 24$

(b) $y = 3x^2 + 12x$

4. For the function $f(x) = 2x - 17$, find

(a) $f(10)$

(b) $f(x-5)$

(c) $f(-x)$