

Quiz 1

Math 3C: Precalculus
October 3, 2019

Welcome to your first quiz! Please remember that these assessments are **informal** and **low-stakes**: we will drop your lowest three quiz grades :)

When you finish, please remain seated until class is dismissed.

Name: _____

PID: _____

Problem 1 (4 points). Consider two quantities, u and v , which are related to each other with the following table:

u	-5	-2	0	1	6	7	9
v	1.5	2	2.5	6	8	4	2

(a) Is v a function of u ? Give a brief (1 sentence, 2 sentences MAX) explanation why.

(b) Is v a one-to-one function of u ? Give a brief (1 sentence, 2 sentences MAX) explanation why.

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Problem 2 (6 points). Consider the set of all numbers greater than 0 (not including 0).

(a) Describe this set using inequality notation.

(b) Describe this set using interval notation.

(c) Consider the function $f(x) = x^2$.

Is the set of numbers you described in 2a and 2b the **range** of f ? Why or why not?