

# Quiz 3

Math 3C: Precalculus  
October 17, 2019

When you finish, please remain seated until class is dismissed

Name: \_\_\_\_\_

PID: \_\_\_\_\_

**Problem 1** (5 points). Let  $f(x) = \sqrt{x+3} + 7$ .

(a) Determine a formula for  $f^{-1}(x)$ .

(b) What is the range of  $f(x)$ ?

(c) What is the domain of  $f^{-1}(x)$ ?

**Problem 2** (5 points). (a) Sketch the line  $p(d) = 4d + 1$ .

(b) Let  $q(d) = -2d - 11$ . Where do the lines  $p(d)$  and  $q(d)$  intersect? Write your answer as a coordinate pair.