

Math 112 (Fall 2009) Quiz 5 (20 points)

Name: _____

Discussion 11:00 12:05

1. (10 points) Solve the inequality

$$\frac{x^2 - 4}{x^2 - 2x + 1} \leq 0.$$

Specify your answer in interval notation.

2. (10 points) Find the domain of the following functions. Specify your answer in interval notation.

- $f(x) = 3x - 2$

- $g(x) = \sqrt{3x - 2}$

- $p(x) = \sqrt[3]{3x - 2}$

- $q(x) = \sqrt[3]{\frac{1}{3x-2}}$