

Name: _____

Math 32, Spring 2010, Section 101
Quiz 3

(1) Solve the inequality, and specify your answer in interval notation (1pt a, 2pts b/c)

(a) $3(t - 2) \leq 4t + 11$

(b) $\left| \frac{x + 1}{2} \right| > 1$

(c) $\frac{x^2 + 2x - 3}{x - 2} \leq 0$

(2) (2 pts) Find the domain of the following function.

$$g(x) = \frac{\sqrt{x+6}}{x-2}$$

(3) (3 pts) Find the domain and range of the following function.

$$g(x) = \frac{4x-20}{3x-18}$$