Name: _____ **Class:** _____ **Date:** _____ **ID: A**

Chapter 7 Quiz 1 (7-1 to 7-3)

Multiple Choice

Identify the choice that best completes the statement or answers the question.

1. (25pts)Find $(\frac{f}{g})(x)$ for the following functions.

   $f(x) = 20x^3 - 4x^2 + 10x - 13$

   $g(x) = -12x^2 - 7$

   a. $\frac{20x^3 - 4x^2 + 10x - 13}{-12x^2 - 7}, x \neq \frac{7}{12}$

   b. $\frac{20x^3 - 4x^2 + 10x - 13}{-12x^2 - 7}, x \neq -\frac{7}{12}$

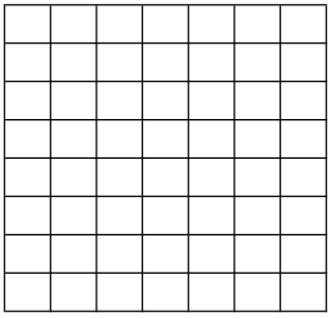
   c. $\frac{20x^3 - 4x^2 + 10x - 13}{-12x^2 - 7}, x \neq -\sqrt{\frac{7}{12}}$

   d. $\frac{20x^3 - 4x^2 + 10x - 13}{-12x^2 - 7}$

Short Answer

2. (25pts) Graph the following function. State the Domain and Range. .DONT FORGET TO LABEL YOUR GRAPH

   $f(x) = \sqrt{x-2} + 1$



3. (25pts) Find $(f-g)(x)$ for the following functions.

   $f(x) = 12x + 15$

   $g(x) = -20x^2 + 2x + 30$

4. See wordproblem pg 86#17