Math 111 Quiz #2 Name: _____
April 12, 2011

Show all work and answers on a separate sheet. Simplify your answers as much as possible. No calculators.

1. Find an equation of a line perpendicular to the line $2y = 4x + 10$. The two lines intersect at $x = 3$.

2. Use the function $f(x) = \sqrt{25 - x^2}$ for parts (a) and (b) below.
   (a) (1 pt.) Evaluate $f(-2)$.
   (b) (3 pts.) Find the value(s) of x for which $f(x) = 3$.

3. (1 pt.) Find the domain of $g(x) = \dfrac{4}{\sqrt{x-7}}$.

4. (2 pts.) Find the range of the function $h(x) = 5x - 2$ for the domain $-1 \leq x \leq 2$.

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