

Math 1A
Quiz 2 - September 9, 2009

Name:

1. (a) Find the inverse of the function $f(x) = 1 - \sqrt{10 - 3x}$. (You don't need to completely simplify)

(b) What are the domain and range of $f^{-1}(x)$?

2. Draw the graph of a function that has no inverse and briefly explain why not.

3. Sketch a graph of the function $f(x) = \frac{x + 2}{x - 3}$.

(HINT: Does the function have asymptotes? Does it have zeros? What is $f(1 \text{ million})$ approximately?)