

Math 120B**Quiz 3****October 30, 2003**

Show all work for full credit.

1. (5 points) Give the multipart rule for the function

$$h(t) = 3u(2t - 5) - 1$$

using the fact that

$$u(t) = \begin{cases} 0 & \text{if } t < 0, \\ 1 & \text{if } 0 \leq t \leq 1, \\ 0 & \text{if } t > 1. \end{cases}$$

Simplify as much as possible.

2. (5 points) Find an inverse function of

$$f(x) = 3 + 4\sqrt{2 - x}$$

or explain why this function has no inverse.