

Name: _____

Section: _____

Math 120A

Quiz 3

April 29, 2004

Show all work for full credit.

This quiz is two-sided! Do both sides!

1. (5 points) Let $u(t)$ be the basic step function:

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

Sketch the function $f(t) = 3u\left(\frac{1}{2}t + 2\right) - 4$.

2. (5 points) Let $g(x) = \frac{x+3}{x+6}$. Find $g^{-1}(5)$.