

Math 165: Honors Calculus I
Quiz 3 *Sept. 22, 1994*

Name: _____

1. Define the following:

a) A partition of $[a, b]$.

b) A step function on $[a, b]$.

c) $\int_a^b s(x) dx$ where s is a step function on $[a, b]$.

d) $\int_a^b f(x) dx$ where f is a bounded function on $[a, b]$.

2. State precisely the following theorems about integrals of step functions.

a) Linearity Property.

b) Invariance Under Translation.

3. Compute $\int_{-2}^4 3[x] + [x/4] dx$.