

Math 106  
Sept. 25, 1996

Little Quiz #1

Name \_\_\_\_\_  
(Please Print)

1. The area of the region bounded by the x-axis, the lines  $x = 2$ ,  $x = 6$  and  $y = \frac{1}{2}x + 2$  is given by the integral  $A = \int_2^6 \left(\frac{1}{2}x + 2\right) dx$ .  
Evaluate this integral to obtain the area  $A$ .

2. The area of the region can be obtained without the use of calculus. Show that the result of part 1 above agrees with the area so obtained.