MA 234-01	Quiz $#4$		Name:
\$15.1 - 15.2	• • • •	score	2 May 1997

1. A function f(x, y) has the values given in the table below. Doing the best you can with the information given there, approximate the value of the $\int_R f(x, y) dA$ where $R = \{(x, y) | 0 \le x \le 2, 0 \le y \le 2\}$. (10 points)

$x \backslash y$	0	1	2
0	4	3	1
1	6	4	1
2	9	6	2

2. Setup an integral which would compute the volume of the solid inside the cylinder in 3-space given by $x^2 + z^2 = 4$ which satisfies $x \ge 0$, $y \ge 0$, $z \ge 0$, and $x + y \le 4$. You do not need to actually compute the value. (10 points)