

MA 234-01 §15.1 – 15.2	Quiz #4	score	Name: _____ 2 May 1997
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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 $R = \{(x, y) | 0 \leq x \leq 2, 0 \leq y \leq 2\}$. (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 $x \geq 0$, $y \geq 0$, $z \geq 0$, and $x + y \leq 4$. You do not need to actually compute the value. (10 points)