Name_____ ID_____

1-2	/20
3	/10
Total	/30

MATH 251 Quiz 4 Spring 2006

Sections 506 P. Yasskin

10 points each

1. Compute $\int_1^2 \int_1^x 3y \, dy \, dx$.

a. -1
b. 1
c. 2
d. $\frac{7}{2}$
e. 4

2. Find the volume under the surface $z = 2xy^2$ above the triangle with vertices $(0,0)$, $(4,0)$ and $(2,1)$.

a. $-\frac{1}{3}$
b. $\frac{1}{3}$
c. $\frac{2}{3}$
d. $\frac{7}{6}$
e. $\frac{4}{3}$

3. Compute $\int_0^1 \int_{y^2}^1 y^3 \sin(x^3) \, dx \, dy$. HINT: Reverse the order of integration.

Solve on the back of this sheet.