

# CC 09 2ND INTERNAL

ANSWER ALL THE QUESTIONS

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1. The value of the integral  $\int_0^1 \int_0^1 xy(x - y) dy dx$  is

a) 2

b) 4

c) 6

d) 8

a

b

c

d

2. The value of the integral  $\int_0^1 dy \int_y^1 e^{x^2} dx$  is

a)  $\frac{1}{2}(e^2 - 1)$

b)  $\frac{1}{2}(e - 1)$

c)  $\frac{1}{2}(1 - e)$

d)  $\frac{1}{2}(1 - e^2)$

a

b

c

d

3. The value of the integral  $\iint_R \sin(x + y) dx dy$  over  $R: \left\{0 \leq x \leq \frac{\pi}{2}; 0 \leq y \leq \frac{\pi}{2}\right\}$  is

a) 2

b) 4

c) 6

d) 8

a

b



c

d

4.  $\int_0^1 dx \int_x^{\sqrt{x}} f(x, y) dy$  is equivalent to

a)  $\int_0^1 dy \int_y^{\sqrt{y}} f(x, y) dx$

b)  $\int_0^1 dy \int_{y^2}^y f(x, y) dx$

a

b

5. The value of  $\iiint (x^2 + y^2 + z^2) dx dy dz$  taken throughout the sphere  $x^2 + y^2 + z^2 \leq 1$  is

a)  $\frac{4}{5}\pi$

b)  $\frac{2}{3}\pi$

c)  $\frac{4}{5}\sqrt{\pi}$

d)  $\frac{2}{3}\sqrt{\pi}$

a

b

c

d

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