

Several Variable Calculus

1. Calculate the iterated integral $\int_0^{\pi/2} \int_0^{\pi/2} \sin(x + y) \, dy \, dx$.

Solution. This problem is Exercise 10 on page 804 of the textbook. Here is the calculation:

$$\begin{aligned} \int_0^{\pi/2} \left(\int_0^{\pi/2} \sin(x + y) \, dy \right) dx &= \int_0^{\pi/2} \left[-\cos(x + y) \right]_{y=0}^{y=\pi/2} dx \\ &= \int_0^{\pi/2} \left(-\cos\left(x + \frac{\pi}{2}\right) + \cos(x) \right) dx \\ &= \left[-\sin\left(x + \frac{\pi}{2}\right) + \sin(x) \right]_0^{\pi/2} \\ &= \left(-\sin(\pi) + \sin\left(\frac{\pi}{2}\right) \right) - \left(-\sin\left(\frac{\pi}{2}\right) + \sin(0) \right) \\ &= 2. \end{aligned}$$

2. Calculate the double integral

$$\iint_R y e^{xy} \, dA, \quad \text{where } R = [0, 1] \times [0, 1].$$

Solution. This problem is the same as an example that we worked in class (Exercise 20 on page 804) except with the variables x and y interchanged. The effective way to solve this problem is to integrate first with respect to x :

$$\begin{aligned} \iint_R y e^{xy} \, dA &= \int_0^1 \int_0^1 y e^{xy} \, dx \, dy \\ &= \int_0^1 \left[e^{xy} \right]_{x=0}^{x=1} dy \\ &= \int_0^1 (e^y - 1) \, dy \\ &= \left[e^y - y \right]_0^1 \\ &= (e - 1) - (1 - 0) \\ &= e - 2. \end{aligned}$$

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Anthony S. Fauci



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