

Double Integrals over General Regions



Question

Determine which of the following integrals is equal to

$$\int_0^{\pi} \int_x^{\pi} \frac{\sin(y)}{y} dy dx.$$

A. $\int_0^{\pi} \int_0^x \frac{\sin(y)}{y} dx dy$

B. $\int_0^{\pi} \int_0^y \frac{\sin(y)}{y} dx dy$

C. $\int_0^{\pi} \int_y^{\pi} \frac{\sin(y)}{y} dx dy$

D. $\int_x^{\pi} \int_0^{\pi} \frac{\sin(y)}{y} dx dy$