

微積分作業9

May 29, 2026

1 Evaluate the iterated integral.

$$\int_0^2 \int_{3y^2-6y}^{2y-y^2} 3y \, dx \, dy$$

2 Evaluate the iterated integral.

$$\int_0^4 \int_0^2 \frac{1}{(x+1)(y+1)} \, dy \, dx$$

3 Evaluate the iterated integral by converting to polar coordinates.

$$\int_0^2 \int_0^{\sqrt{4-x^2}} x \, dy \, dx.$$