

Exercises: Double and Triple Integrals
Solutions
Math 13, Spring 2010

1. Consider the iterated integral

$$\int_0^1 \int_0^{1-x^2} \int_0^{1-x} f(x, y, z) dy dz dx.$$

(a) Rewrite this integral as an equivalent iterated integral in the order $dy dx dz$.

(b) Rewrite the integral in the order $dz dx dy$.

Solution. The triple integral is an integral over the solid W in \mathbb{R}^3 that consists of all points (x, y, z) with

$$\begin{aligned} 0 &\leq x \leq 1 \\ 0 &\leq z \leq 1 - x^2 \\ 0 &\leq y \leq 1 - x. \end{aligned}$$

To obtain the $dy dx dz$ integral we only need to change the order of the two outer integrals, which involves studying the “shadow” of W as a region D in the xz -plane. This region D consists of points (x, z) with

$$\begin{aligned} 0 &\leq x \leq 1 \\ 0 &\leq z \leq 1 - x^2. \end{aligned}$$

If you draw a diagram of this region, you see that it can also be described as

$$\begin{aligned} 0 &\leq z \leq 1 \\ 0 &\leq x \leq \sqrt{1-z}. \end{aligned}$$

This is sufficient to re-write the triple integral as

$$\int_0^1 \int_0^{\sqrt{1-z}} \int_0^{1-x} f(x, y, z) dy dx dz.$$

In order to get the $dz dx dy$ integral we need to analyze the three dimensional solid W , by sketching a diagram. Because the two outer integrals are $dx dy$, we then need to project W to find its shadow onto the xy -plane. It turns out that this shadow in the xy plane is the region bounded by the triangle with vertices $(0,0)$, $(1,0)$ and $(0,1)$.

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S Ashworth



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