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

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

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 is consists of points (x,z) with

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

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

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

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 $(0,1)$.

Exercises Double And Triple Integrals Solutions Math 13

Sabine Zange

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