

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 $(0,1)$.

Exercises Double And Triple Integrals Solutions Math 13

Yan Bai



Exercises Double And Triple Integrals Solutions Math 13:

The Enigmatic Realm of **Exercises Double And Triple Integrals Solutions Math 13**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Exercises Double And Triple Integrals Solutions Math 13** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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