

Definite integration

Definition

- definite integration gives the area under the curve
- if $f(x)$ be a continuous function in $[a,b]$ and $\int f(x)dx = F(x)+c$ therefore,
$$\int_a^b f(x)dx = F(b) - F(a)$$
 where a and b are lower and upper limits of integration
- Note: Always have that function which is continuous in $[a,b]$

Example problem:

1. $\int_0^1 \sqrt{\frac{1-x}{1+x}} dx$
2. $\int_1^4 \ln x dx$
3. $\int_0^{\frac{\pi}{2}} \frac{1}{1+2 \sin^2 x} dx$

Answer key:

1. $\frac{\pi}{2} - 1$
2. $\ln 4 - 1$
3. Hint: form $\cot(x)$ instead of $\tan(x)$

Important points

- Area above x -axis is +ve
- Area below x -axis is -ve
- If this phrase "area bounded by x -axis and the curve" is used in the problem then take all the areas +ve
- If $f(x)$ is continuous in $[a,b]$ and $\int_a^b f(x)dx = 0$ then there at least one point c for which $f(c) = 0$ where $a < c < b$
- For area related to $\sin x \rightarrow \int_0^{\frac{\pi}{2}} \sin x dx = 1$ and $\int_{\frac{\pi}{2}}^{\pi} \sin x dx = 2$
- For area related to $\cos x \rightarrow \int_0^{\frac{\pi}{2}} \cos x dx = 1$ and $\int_{\frac{\pi}{2}}^{\pi} \cos x dx = 2$

Properties

- $\int_a^b f(x)dx = \int_a^b f(t)dt$

Geometry Integration Application Connection

RJ Alexander



Geometry Integration Application Connection:

Decoding **Geometry Integration Application Connection**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Geometry Integration Application Connection**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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