

The Integral of a Complex Function

$$\text{Let } z = a + bi \quad \int e^{zx} dx = \int e^{(a+bi)x} dx = ?$$

$$\int e^{(a+bi)x} dx = \int e^{ax} \cdot e^{ibx} dx$$
$$= \frac{1}{a} e^{ax} e^{ibx} - \frac{ib}{a} \int e^{ax} \cdot e^{ibx} dx$$

$$\left(1 + \frac{ib}{a}\right) \int e^{ax} \cdot e^{ibx} dx = \frac{1}{a} e^{ax} e^{ibx}$$

$$\int e^{ax} \cdot e^{ibx} dx = \frac{\frac{1}{a} e^{ax} e^{ibx}}{\left(1 + \frac{ib}{a}\right)} = \frac{e^{zx}}{a + ib} = \frac{1}{z} e^{zx}$$

$$\int u dv = uv - \int u dv$$
$$u = e^{ibx} \quad dv = e^{ax} dx$$
$$du = ib e^{ibx} dx$$
$$v = \frac{1}{a} e^{ax}$$

Calculus With Complex Numbers

M Lipman



Calculus With Complex Numbers:

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Calculus With Complex Numbers**

In a global inundated with displays and the cacophony of fast communication, the profound power and emotional resonance of verbal art usually fade into obscurity, eclipsed by the regular assault of sound and distractions. However, nestled within the lyrical pages of **Calculus With Complex Numbers**, a fascinating work of fictional beauty that impulses with organic emotions, lies an unforgettable journey waiting to be embarked upon. Penned by a virtuoso wordsmith, that interesting opus instructions viewers on a mental odyssey, gently revealing the latent potential and profound influence stuck within the delicate web of language. Within the heart-wrenching expanse of this evocative examination, we shall embark upon an introspective exploration of the book is key subjects, dissect their charming writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

<https://db1.greenfirefarms.com/public/Resources/fetch.php/Calculus%20For%20Biology%20And%20Medicine%203rd%20Edition%20Solutions.pdf>

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