

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

ML Morrison



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