The Integral of a Complex Function

Let $z = a + bi$ $\qquad$ $\displaystyle\int e^{zx}\, dx = \int e^{(a+bi)x}\, dx = ?$

$$\int e^{(a+bi)x}\, dx = \int e^{ax} \cdot e^{ibx}\, dx$$

$$= \frac{1}{a} e^{ax} e^{ibx} - \frac{ib}{a} \int e^{ax} \cdot e^{ibx}\, dx$$

$$\boxed{\int u\, dv = uv - \int u\, dv}$$

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

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

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

Calculus With Complex Numbers

Christian G. Meyer

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