

$$J = \int e^{ax} \sin bx \, dx = \left[\begin{array}{l} u = e^{ax} \\ du = a e^{ax} dx \end{array} \middle| \begin{array}{l} v = -\frac{1}{b} \cos bx \\ dv = \sin bx \, dx \end{array} \right] = -\frac{1}{b} e^{ax} \cos bx +$$

$$+\frac{a}{b} \int \cos bx e^{ax} \, dx = \left[\begin{array}{l} u = e^{ax} \\ du = a e^{ax} dx \end{array} \middle| \begin{array}{l} v = \frac{1}{b} \sin bx \\ dv = \cos bx \, dx \end{array} \right] = \frac{1}{b} e^{ax} \sin bx +$$

$$+\frac{a}{b} \left(\frac{1}{b} e^{ax} \cos bx - \frac{a}{b} \int \sin bx e^{ax} \, dx \right) = -\frac{1}{b} e^{ax} \cos bx + \frac{a}{b^2} e^{ax} \sin bx -$$

$$-\frac{a^2}{b^2} \int \sin bx e^{ax} \, dx = J = -\frac{1}{b} e^{ax} \cos bx + \frac{a}{b^2} e^{ax} \sin bx - \frac{a^2}{b^2} J$$

$$J + \frac{a^2}{b^2} J = -\frac{1}{b} e^{ax} \cos bx + \frac{a}{b^2} e^{ax} \sin bx \quad J = \frac{-\frac{1}{b} e^{ax} \cos bx + \frac{a}{b^2} e^{ax} \sin bx}{\frac{b^2 + a^2}{b^2}}$$

$$= \int e^{ax} \sin bx \, dx = \frac{e^{ax} (a \sin bx - b \cos bx)}{b^2 + a^2}$$

Differential Expressions

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