

Answer on Question#50925 - <Math> - < Integral Calculus >

Find  $\int e^{2x} dx$

**Solution.**  $\int e^{2x} dx = \frac{1}{2} \int e^{2x} d(2x) = \{t = 2x\} = \frac{1}{2} \int e^t dt = \frac{1}{2}(e^t + c) = \frac{1}{2}(e^{2x} + c)$

**Answer.**  $\int e^{2x} dx = \frac{1}{2}(e^{2x} + c)$ , where  $c \in R$

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