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 $c \in R$