## Answer on Question #69641 – Math – Differential Equations

## Question

Solve the general solution of dy/dx=ex+x+sinx

## Solution

$$dy = dx(e^{x} + x + sinx)$$
$$\int dy = \int dx(e^{x} + x + sinx) + C$$
$$y = e^{x} + \frac{x^{2}}{2} - cosx + C$$

**Answer:**  $y = e^{x} + \frac{x^{2}}{2} - \cos x + C$ 

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