

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

### Question

Solve the general solution of  $dy/dx=e^x+x+\sin x$

### Solution

$$dy = dx(e^x + x + \sin x)$$

$$\int dy = \int dx(e^x + x + \sin x) + C$$

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

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