



## Differential Equations

### First Order Differential Equation

### Solutions of Practice Problems

**Solution 1:**  $y = \frac{1}{2}(\sin x - \cos x) + ke^{-x}$

**Solution 2:**  $y = \frac{1}{2}e^x + ke^{-x}$

**Solution 3:**  $y = \frac{1}{4}x^2 + kx^{-2}$

**Solution 4:**  $y = \frac{2}{3}x^2 + \frac{5}{2}x + \frac{k}{x}$

**Solution 5:**  $y = -6 + ke^x$

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