



Differential Equations

First Order Differential Equation

Practice Problems

Solve the following Differential Equations:

1. $\frac{dy}{dx} + y = \sin x$

2. $\frac{dy}{dx} + y = e^x$

3. $x \frac{dy}{dx} + 2y = x^2$

4. $\frac{dy}{dx} + \frac{1}{x}y = 2x + 5$

5. $\frac{dy}{dx} - y = 6$

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