

Problem 4: Basics of Calculus, Ordinary Differential Equations

Solve the following differential equations, show all work:

a.
$$\frac{dy}{dx} = \frac{6x^2}{2y + \cos y}$$

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

c.
$$\frac{dy}{dx} (1 + \tan y) = x^2 + 1$$

d.
$$\frac{dy}{dx} (2y + e^{3y}) = x \cos x, \text{ when } y(0) = 0$$

Differential Calculus Problems With Solution

Ying-Ying Zheng



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