

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

Christian G. Meyer



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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Differential Calculus Problems With Solution**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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