

Problems on advanced calculus

Problem 1

Assuming that y is a function of the variable x , the following equation is given:

$$\frac{d}{dx} \left(\frac{y^2}{2} \right) + \frac{d}{dx} \left(y \frac{dy}{dx} \right) = \left(\frac{dy}{dx} \right)^2 + y \frac{d^2 y}{dx^2} + x.$$

- Prove that you can simplify it to:

$$\frac{dy}{dx} = \frac{x}{y}$$

- Then solve the differential equation you just found.
- Then find the value of the constant of integration if $y(0) = 2$.

Problem 2

Solve the following integral:

$$\int \sin(\ln(x)) \, dx$$

Advanced Calculus Problems And Solutions

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