# Problems on advanced calculus

#### Problem 1

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

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

· 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.

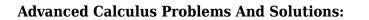
### Problem 2

Solve the following integral:

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

# **Advanced Calculus Problems And Solutions**

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