

King Fahd University of Petroleum and Minerals  
Department of Math & Stat  
**Math 202, Section 04 (101)**  
**Quiz 1**

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Name: \_\_\_\_\_

ID #: \_\_\_\_\_  
(Show Your Work)

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1. Solve the differential equation by separation of variables

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

(4 points)

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

(6 points)