

## **Department of Mathematics**

## Homework 1

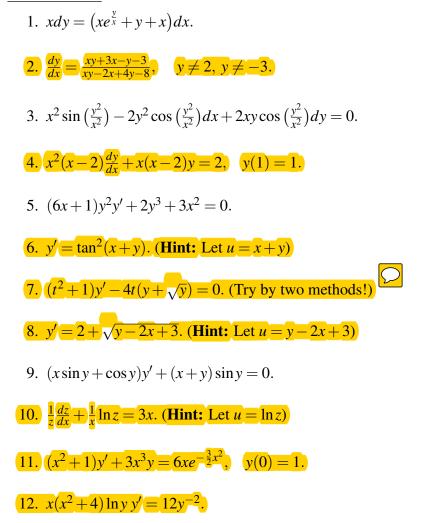
**Ordinary Differential Equations (Math 331)** 

Instructor: Dr. Ala Talahmeh

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**Question one:** Solve the following ODE.



**Question Two:** An object with temperature  $108^{\circ}F$  was placed outside where the temperature is  $-20^{\circ}F$ . At 00 : 00 the temperature of the object is  $60^{\circ}F$  and at 00 : 02 the temperature of the object is  $30^{\circ}F$ . At what time was the object placed outside?

## **Good Luck**