**First Mid Term Exam Math 425**

**Question 1**

**a-Eliminate the arbitrary functions to obtain a differential equation of lowest order:**

**,c is a constant.**

**b- Show that is a solution of**

**Question2**

**Find the general solution of:**

**a-**

**b-**

**Question 3**

**a)Determine the integral surface which passes through the given curve:**

**b)**