**Mathematics in Economics - Written Exam – Part 2 – 70 points**

Name:…………………………………

1) Find derivatives:

1. 9 points

2) Find maxima and minima of the function of two variables:

 10 points

3) Find Maclaurin series of . 8 points

4) Find maxima/minima of the function: 9 points

5) Find the increment of the Cobb-Douglas function for

K = 9, L = 25, dK = 0.1 and dL = 0.25. 8 points

6) Find: 8 points

7) Find: 8 points

8) Find the area between *y* = 3*x* and *y* = *x*2. 10 points