

**MATH 206 (Multivariable Differential and Integral Calculus)**

**Assignment-1st Semester 1446 H**

**To be submitted on or before 10-04-1446 H (13-10-2024)**

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| **Student Name** | **Student ID** |
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| **Question Number** | **I** | **II** | **Total** |
| **Mark** |  |  |  |

**Instructions**

* Use any trusted source of information with proper citation and no plagiarism
* Work on this assignment as groups of three

**[I]** Let

a. **Show** that is continuous at the point

b. **Find**

c. **Find**

**[II]** Find the extrema and saddle points ofon the region bounded by the graphs and

Good Luck ☺