

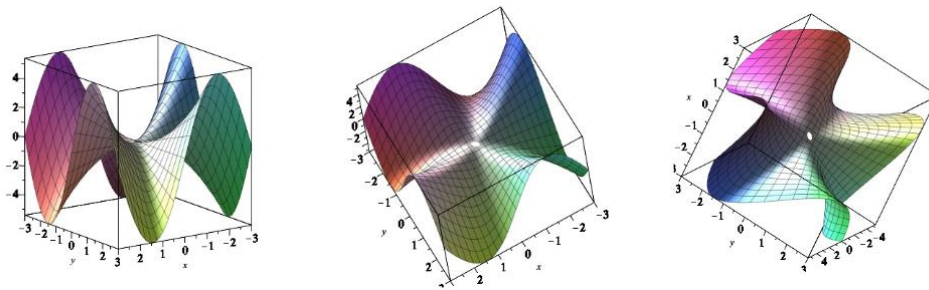
MATH 223 Fall 2022
Assignment 9
Due: Monday, October 2

Reading

Read carefully Sections 4.1 “Limits and Continuity” in our text *Multivariable Calculus: A Linear Algebra Based Approach*.

Writing

Write out careful and complete solutions of Exercises 49ab, 51, 52a, 31 and 33 in Chapter 3.



Three views of graph of $f(x, y) = \begin{cases} 2xy \frac{x^2 - y^2}{x^2 + y^2} & (x, y) \neq (0, 0) \\ 0 & (x, y) = (0, 0) \end{cases}$