MATH 223 Fall 2023

Assignment 15

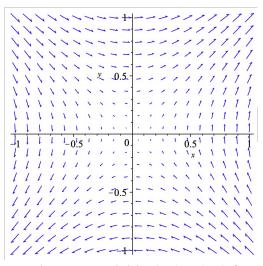
Due: Friday, October 20

Reading

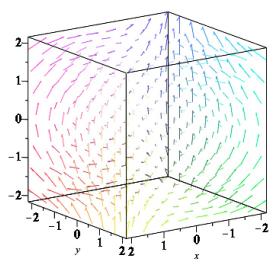
Read carefully Section 5.4 "Normal Vectors" in our text *Multivariable Calculus: A Linear Algebra Based Approach*.

Writing

Write out careful and complete solutions of Exercises 7, 8ab, 10, 11 and 12 of Chapter 5.



The Vector Field $\mathbf{F}(x,y) = (y,x)$ for $-1 \le x \le 1, -1 \le y \le 1$.



The Vector Field $\mathbf{F}(x \ y, \ z) = (yz, xz, x^2)$ for $-2 \le x \le 2, \ -2 \le y \le 2, \ -2 \le z \le 2.$