

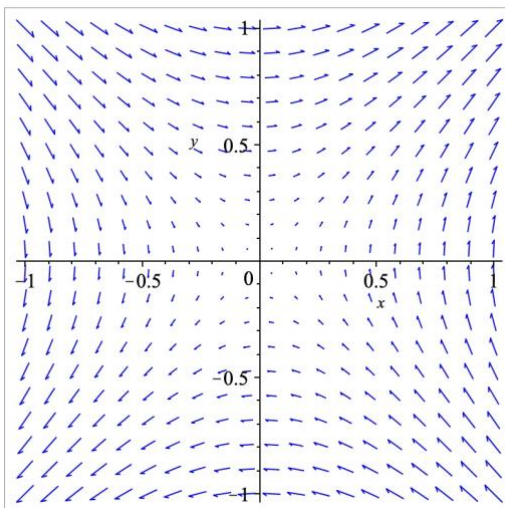
MATH 223 Fall 2022
Assignment 15
Due: Friday, October 21

Reading

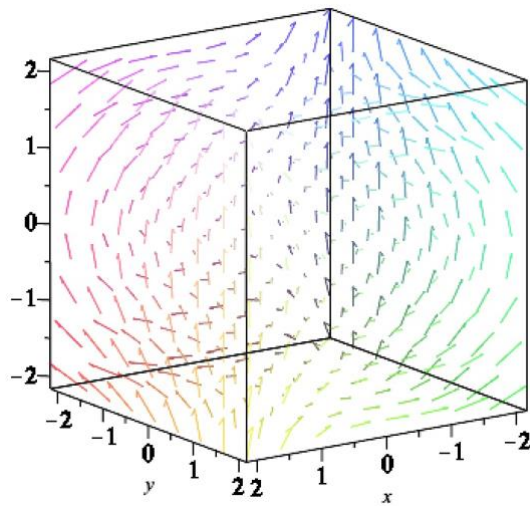
Read carefully Section 5.4 “Normal Vectors” in our text *Multivariable Calculus: A Linear Algebra Based Approach*.

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 $-1 \leq x \leq 1, -1 \leq y \leq 1$.



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