

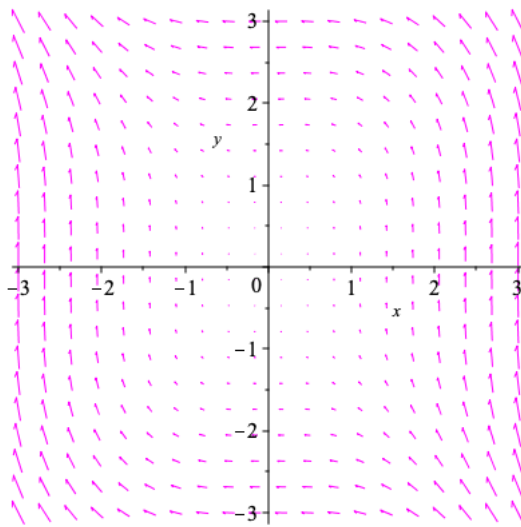
MATH 223      Fall 2023  
Assignment 27  
**Due: Friday, November 17**

**Reading**

Read carefully Section 7.3 “Arc Length and Weighted Curves” in our text *Multivariable Calculus: A Linear Algebra Based Approach*.

**Writing**

Write out careful and complete solutions of Exercises 9ac, 10df, 11, 13, and 16 of Chapter 7.



Problem 16a

Plot of Vector Field  $F(x, y) = (-y^2, 2x^2)$   
Maple Command: `fieldplot([-y2, 2x2],  
 $x = -3 .. 3, y = -3 .. 3, color = magenta$`



Charles W. Cobb and Paul H. Douglas