

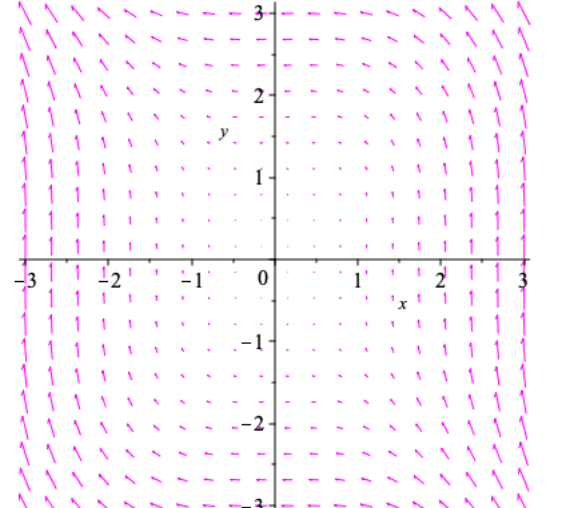
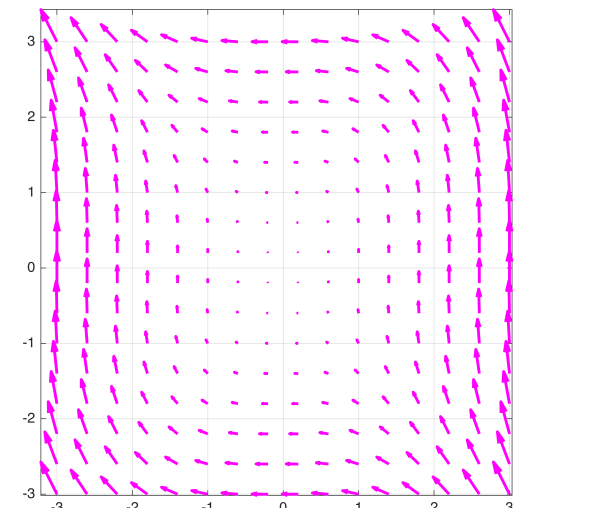
MATH 223 Fall 2023
Assignment 27
Due: Friday, November 17

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

	
<p>Problem 16a Plot of Vector Field $F(x, y) = (-y^2, 2x^2)$ Maple Command: <code>fieldplot([-y^2, 2x^2], x = -3 .. 3, y = -3 .. 3, color = magenta</code></p>	<p>Problem 16a Plot of Vector Field $F(x, y) = (-y^2, 2x^2)$ MATLAB Commands: <pre>[x,y] = meshgrid(-3:0.4:3,-3:0.4:3); U = -y.^2; V = 2*x.^2; quiver(x,y,U,V,'m', 'LineWidth',2) grid on; axis image</pre></p>