
Homework 3, due Friday 2/4

1. p. 105, problem 1 (pick at least 4 values for c in each case)
2. p. 106, problems 4,6
3. p. 106, problem 17
4. p. 106, problems 25
5. What's the shape of the set of all points such that $\rho = 2$?
6. p. 139, problems 1 (a), (c), 2 (a)
7. p. 139, problems 3 (a), (d)
8. p. 140, problems (5), 6 (a), (c)
9. p. 140, problem 10
10. Consider $f(x, y) = (xe^y)^8$. Find the equation of the tangent plane at $(1, 0)$. Now do problem 12 (a).