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).