Math 241 F1H: Problem Set 3

Due date: In class on Tuesday February 5.

To make things easier on the grader, I'm now giving each problem a uniform number.

1. §2.1: #32.

2. §2.1: #33.

3. Sketch the level curves and graphs for

   (a) $3 - x^2 - y^2$
   (b) $3x^2 - y^2 + 4$

4. §2.2: #13(a).

5. Spend a little time playing with the quadric surfaces at

   http://www.math.uiuc.edu/Courses/math241/quadrics/

   Write a paragraph about something you learned doing so.

6. §2.2: #19.

7. §2.2: #20.

8. §2.2: #30.

9. §2.3: #2.

10. §2.3: #8.

11. §2.3: #14.

Note: This assignment is complete. No further problems will be assigned on Monday.