Calculus III
Homework One
Due Friday 18 September, 2009

Chapter 12.1:

1. 1
2. 7
3. 8
4. 20
5. 22
6. 23
7. 24

Chapter 12.2: You can use WolframAlpha to check your work if you want. But don't just mindlessly plug the formulas into WolframAlpha. Think about why the graphs are shaped the way they are.

1. 2
2. 3–5
3. 14
4. 16–17
5. 19

Chapter 12.3:

1. 1
2. 7
3. 11
4. 17
5. 18
6. 21
7. 32
8. 33. Why is this shape called a "monkey saddle." (If you consult other sources for this one, be sure to site them.)