**Calculus Warmup Questions**

Before we dive head-first into Calc 3 it is a good idea to review the basic concepts from Calc 1 and Calc 2. Please review the following questions. We will talk about them on Wed but this is *not* a homework to turn in - it is merely a warmup exercise that will make for a good class discussion on Wed.

**Calc 1** introduced the idea of “limit” and uses it to define the three concepts of continuity, derivative, and (definite) integral. Here are a few review questions:

Is the function , is it continuous at 0? If not, how could you change it to make it continuous for all x?

If , find *f’(x)*

If , find *f’*

Find and

**Calc 2** did not introduce many new concepts but you learned a lot of advanced techniques for integration, among other things (such as series and differential equations, which we won’t need in Calc 3). Find