MATH 265 - Topic 2 Worksheet

Overview:

1. What are the main definitions and theorems from Topic 2?

2. List all of the strategies we have discussed for calculating limits in Topic 2.

3. How do you calculate the limit of an absolute value?

4. Given a limit you haven't seen before, how do you calculate it? Where do you start? What questions do you ask yourself?

Reality Check:

1. What is a limit? Why do we bother to define a limit? *(Do not cite the definition. Describe its meaning in the most simplistic terms you can.)*

2. When does a limit fail to exist? What does a function look like when its limit does not exist at a point?

3. Why is the Squeeze Theorem useful? When do we use it? Give an example of a situation where we cannot use the Squeeze Theorem.

Create Your Own Problems:

1. Create a potential test question from Topic 2 that falls within the bottom three levels of Bloom's Taxonomy (i.e., remember, understand, apply). Explain why your questions falls here.

2. Create a potential test question from Topic 2 that falls within the top three levels of Bloom's Taxonomy (i.e., analyze, evaluate, create). Explain why your question falls here.

Remaining Questions:

1. What questions do you have about the Topic 2 material?

2. What steps do you plan on taking to answer these questions?