Differential Equations

Week 2

Monday September 2 : *No Class.* Enjoy The Labor Day Holiday!

Wednesday September 4 : *Class 3*:

Slope Fields. We will begin our qualitative analysis of differential equations by introducing and investigating **slope fields**.

Reading:

Blanchard, Section 1.3

Homework #3:

Blanchard, Section 1.3: 7, 8, 12, 13, 14, 16.

Friday September 6 *Class 4*:

Euler's Method. We will learn about a simple (and possibly familiar) numerical technique called Euler's Method which approximates solutions to ODEs.

Reading:

Blanchard, Section 1.4.

Homework #4:

Blanchard, Section 1.4: 2, 6, 11, 15.