

### **Last Third Review**

Here is a list of terms that it may be helpful for you to review. In addition, you may want to go back over the last two review sheets (they're on the web in case you've lost yours). Again, try and have a mathematical as well as verbal understanding of the terms here.

1. Homogeneous Linear Systems, including
  - (a) Real Eigenvalues
  - (b) Complex Eigenvalues
  - (c) Repeated Eigenvalues
2. Graphic representation of systems (qualitatively, among the three types)
3. Separation of Variables
4. Heat Equation
5. Fourier Coefficients
6. Even and Odd Periodic Extensions
7. Sine series, Cosine series
8. Wave Equation

On Thursday, I will distribute a practice exam of about 8 problems, at least half of which will come from this last portion of the class. Try and take it like a real exam. Our last tutorial will be on Saturday, March 6, from 1-4. Feel free to blitz me with questions this week, I'll try to address them all in tutorial.