

Math 319 - Differential Equations II
Pre-Reading Assignment # 11
due 10am Tue Oct 21st, via email

Reading Section 10.6, pages 611-613

Questions Answer the questions below to the best of your ability.

1. Consider equation (5). Compare it with equation (4) in section 10.5 (page 599). What are the similarities? What are the differences?
2. Do steps 1-2 of the separation of variables solution method (that is, apply separation of variables to the PDE and separable BCs, and determine the ODE problems that result) for equations (1)-(2) in section 10.6 (p 611) and for equations (1)-(2) in section 10.5 (p 599). Look at the ODE problems you end up with in each case. Use these to explain the similarities and differences that you observed in problem 1
3. Why are drums not used for melody?