MWF 8:30 - 9:25am Fowler North 2 http://faculty.oxy.edu/ron/math/341

## Week 11

Monday April 4: Class 26:

**Translations and Laplace Transform**. We will examine some interesting results when the independent variables and dependent variables are shifted/translated.

Reading:

Zill, (Section 7.3)

Homework Set # 11: (due Friday April 15)

Zill, Section 7.3: 3\*, 7\*, 15\*, 22\*, 39\*, 43\* EXTRA CREDIT 49-54

Quiz #9 DUE

Wednesday April 6 Class 27:

**Derivatives of Laplace Transforms/Laplace Transforms of Integrals**. We will look at the interaction of Calculus operations and Laplace Transforms and introduce the concept of "convolution."

Reading:

Zill, (Section 7.4)

Homework Set # 11: (due Friday April 15)

Zill, Section 7.4: 1\*, 2\*, 19\*, 27\*, 33\*, 41\* EXTRA CREDIT 45, 49

Friday April 8 Class 28:

**Dirac Delta Function**. Introducing you to the weirdest, most wonderful and most useful "function" in applied mathematics and engineering.

Reading:

Zill, (Section 7.5)

Homework Set # 11: (due Friday April 15)

Zill, Section 7.5: 3\*, 9\* Zill, Chapter 7 Review: 25\*,26\*,27\*,28\*,29\* EXTRA CREDIT 37

Quiz #10