

Week 12

Monday April 11: *Class 29:*

Series Solutions. We will begin our look at an important technique for approximating solutions of differential equations by reviewing our knowledge of infinite series.

Reading:

Zill, (Section 6.1)

Homework Set # 12: (*due Monday April 25*)

Zill, Section 6.1: 10*,13*,15*,26*,29*

Quiz #9 DUE

Bonus Quiz #6 DUE

Wednesday April 13 *Class 30:*

Series Solutions near Singular Points. We will learn about what to do when we are trying to use a series solution around a singular point: **The Method of Frobenius.**

Reading:

Zill, (Section 6.2)

Homework Set #12: (*due Monday April 25*)

Zill, Section 6.2: 3*,4*,12*,13* *EXTRA CREDIT 33*

Friday April 15 *Class 31:*

Special Functions. Not your everyday functions!

Reading:

Zill, (Section 6.3)

Homework Set # 12: (*due Monday April 25*)

Zill, Section 6.3: 5*,10*,25*,30* *EXTRA CREDIT 33*

Zill, Chapter 6 Review: 4*,5*,10*,15*,20* *EXTRA CREDIT 22*

HOMEWORK #11 DUE TODAY

Quiz #10

BONUS Quiz #7