

1050 Week at a Glance:

Week 3

Math 1050-90

Objectives

- [Analyze graphs of quadratic functions
- [Write quadratic functions in standard form and use the result to sketch a graph
- [Use quadratic functions to model real life problems

- [Use transformations to sketch graphs of polynomial functions
- [Determine end behavior by looking at the leading coefficient
- [Find and use zeros of polynomial functions as sketching aids
 - [Use long division to divide a polynomial by a polynomial
 - [Use synthetic division to divide polynomials by a linear binomial
 - [Use the Remainder Theorem and Factor Theorem

- [Use the imaginary unit, i to write complex numbers
 - [Add, subtract, multiply and divide complex numbers in standard form $(a+bi)$
 - [Use complex conjugates to write the quotient of two complex numbers in standard form
 - [Find complex solutions to polynomial equations

Study Tip of the Week:

You can classify problems as red, yellow, or green. “Red” problems are ones that you don’t understand and can’t begin to solve. “Yellow” problems are ones you can solve with help, for example looking at the solution of a similar problem, seeing the answer and working backwards, or asking a friend how to start. Know that having “yellow” problems is an important stage in your learning, but you want to work with the material enough that they become “green” problems. “Green” problems are ones that you can do correctly, showing the correct work, on your own.

If you can’t solve a problem without looking for step-by-step help, do it with the help, but write it on a list of “yellow problems”. In a few hours or days try a similar problem without the help. If you solve it easily, mark it off as green. If not, keep it on the list and try later.

Due by Sun 11 pm

- Canvas Quiz Week 2

Due by Mon of next week, 11 pm

- WebAssign HW 2.1
- WebAssign HW 2.2
- WebAssign HW 2.3
- WebAssign HW 2.4

To Do:

For Lessons 2.1 – 2.4

- Book reading
- Print blank slides
- Watch lecture videos
- Practice Problems
- WebAssign Homework

Supplementary Materials:

- Read “Handout: Completing the Square Explanation”
- Watch extra “Completing the Square” video
- Watch extra “Quadratic Formula” video

Extra tasks for the week:

Sign up for the Exam (you will take it at the Testing Center).

Study for Exam 1.