

PreCalculus – MATH 1110
Unit 2: Polynomial and Rational Functions

Unit Goals

- I can get quadratic equations into vertex form or standard form, graph them, and use them in application problems
- I can describe the attributes of polynomial functions
- I can use long division and synthetic division with polynomials to find a quotient or to describe zeros of polynomials
- I can describe zeros, real or imaginary, of polynomials
- I can graph rational functions and describe their asymptotes, holes, domain, and range

September / PreCalculus

<p>23</p> <p>Chapter 7 Review</p>	<p>24</p> <p>Chapter 7 Review</p>	<p>25 Conferences 4-7p 26 Conferences 4-7p</p> <p>Chapter 7 Test – 60 minutes After test: Factoring Practice WS 2.1a note sheet</p>	<p>27 End of 1st six weeks</p> <p>2.1 Completing the Square, Vertex Form HW #13</p>
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October / PreCalculus

<i>Mon</i>	<i>Tue</i>	<i>Wed/Thurs</i>	<i>Fri</i>
<p>30</p> <p>2.1b note sheet 2.1 Quadratic Applications</p>	<p>1</p> <p>2.2 Graphs of Polynomial Functions HW #14</p>	<p>2/3</p> <p>2.3 Long Division and Synthetic Division HW #15</p>	<p>4</p> <p>2.3 note sheet 2.3 Factor/Remainder Thm Graphically, Finding Zeros, End Behavior</p>
<p>7</p> <p>2.4 note sheet 2.4 Complex Conjugates HW #16</p>	<p>8</p> <p>2.5 Finding All Zeros HW #17</p>	<p>9/10</p> <p>2.3-2.5 Quiz 2.6 Vertical Asymptotes HW #18 Curve Sketching WS #1</p>	<p>11 NO SCHOOL</p>
<p>14</p> <p>2.6 Horizontal Asymptotes and Holes 2.6 note sheet</p>	<p>15</p> <p>2.7 Slant Asymptotes HW #19 Curve Sketching WS #2</p>	<p>16/17</p> <p>2.7 Graphing Practice Graph Mix & Match Activity</p>	<p>18</p> <p>2.8 Quadratic Models HW #20</p>
<p>21</p> <p>Chapter 2 Review</p>	<p>22</p> <p>Chapter 2 Review</p>	<p>23/24</p> <p>Chapter 2 Test 3.1 note sheet: Graph exponential with shifts, compound interest</p>	<p>25 Fall Break NO SCHOOL</p> <p>Go over 3.1 note sheet 3.1 Exponential Functions and Graphs HW #21</p>

Chapter 2 Homework Sheet
Polynomial and Rational Functions

Date and Homework		
Date: 9/26/19 Preview Chapter 2: Factoring Worksheet		Monday Sept. 30
Date: 9/30-10/3 Section 2.1 Quadratic Functions HW #13 pg96 #5, 7, 17-23 odd, 31-41 odd, 45, 47, 65, 67, 75		Friday Oct. 5
Date: 10/4 Section 2.2 Polynomial Functions of Higher Degree HW #14 pg109 #1, 3, 5, 9-21o, 29-45o, 49-55o, 59, 61, 65, 67, 69, 75, 77, 109, 120		Monday Oct. 7
Date: 10/5-10/7 Section 2.3 Real Zeros of Polynomial Functions HW #15 pg124 #9-35 odd, 43, 47, 51, 53, 55, 87-97 odd		Thursday Oct. 10
Date: 10/10 Section 2.4 Complex Numbers HW #16 pg133 #1-6, 7-59 odd, 73-77 odd		Thursday Oct. 10
Date: 10/11 Section 2.5 The Fundamental Theorem of Algebra HW #17 pg140 #5-8, 13-27 odd, 45, 47, 59, 61		Monday Oct. 14
Date: 10/12 Section 2.6 Rational Functions and Asymptotes HW #18 Curve Sketching WS #1		Friday Oct. 18
Date: 10/18 Section 2.7 Graphs of Rational Functions HW #19 Curve Sketching WS #2		Monday Oct. 21
Date: 10/21 Section 2.8 Quadratic Models HW #20 pg165 #1-9 odd, 17, 19, 27, 29		Monday Oct. 21
Date: 10/24 Chapter 2 Review		Thursday Oct. 24
Date: 10/26 Chapter 2 Test		Thursday Oct. 24

Some worked-out solutions and help available at www.calcchat.com

Video Instruction and Examples: <http://mathispower4u.yolasite.com/>

This site provides over 3,300 free mini-lessons and example videos with no ads.