


Algebra 1 Unit 1.10-11: Chapter 10: Quadratic Equations and Functions

1. Title each page with the section number and the assignment description. Include the date as part of your heading.
2. For each problem, write the original information. Show all process steps. Circle or box in the final answer. Use pencil.

March /April 2020

1	<p>2 10.1</p> <p>Graph $ax^2 + c$</p> <p>✓ Hwk: p.632 #1-5, 8, 10, 11, 18-22 even, 27, 48, 52, 55 *Compare to the parent function $y = x^2$</p>	<p>3 10.2</p> <p>Graph $ax^2 + bx+c$</p> <p>✓ Clwk: 10.2B worksheet ✓ Hwk: p.638 #1, 6, 8, 10, 14, 20, 24, 27, 29, 34, 43, 52, 56</p>	<p>4 10.3A</p> <p>Solve Quadratic Equations by Graphing</p> <p>✓ Hwk: 10.3A worksheet</p>	<p>5</p> <p>Graphing Calculators</p> <p>✓ Clwk: p.647 #1, 4, 6, 9, 29, 31, 34, 35, 48, 56,59,62 ✓ Hwk: none</p>	6	7
8th - 14th Have a great SPRING BREAK!						
15	<p>16 Review 10.1-10.3</p> <p>✓ Hwk: 10.1-10.3 Review wkst</p>	<p>17 10.4 notes begin</p> <p>Use Square Roots to Solve Quadratic Equations</p> <p>✓ Hwk: Review 10.1-10.3 p.649 #1-4, 6, 8, 9, 11, 12, 14, 16, 18</p>	<p>18 10.4 notes completed</p> <p>Quiz 10.1-10.3</p> <p>✓ Hwk: 10.4 p.655 #2,5,7,11,13,14, 23, 36, 44, 47, 53, 54, 56</p>	<p>19 10.5A</p> <p>Solve Quadratic Equations by Completing the Square</p> <p>✓ Hwk: p.666 #1-11 odds 14, 15, 17, 45</p>	<p>20 10.5B</p> <p>✓ Clwk: Review 10.1-10.5 wkst. ✓ Hwk: 10.5B worksheet</p>	21
22	<p>23 10.6A</p> <p>Solve Quadratic Equations by the Quadratic Formula</p> <p>✓ Hwk: 10.6A p.674 #1, 3, 4, 9, 12, 13, 22, 29, 32, 41, 43, 48</p>	<p>24 10.6B</p> <p>Quiz 10.4-10.5</p> <p>✓ Hwk: 10.6B p.674 #7, 15, 28, 33, 44, 57</p>	<p>25 10.7</p> <p>Interpret the Discriminant</p> <p>Hwk: 10.7 p.681 #5, 6, 13, 15, 33, 34, 53, 56, 63</p>	<p>26 Review 10.1-10.6</p> <p>✓ Hwk: p.696 #1-6, 11-16, 20, 21, 24, 25, 30, 31-33, AND p.701 24part A</p>	<p>27 Chapter 10 Review</p> <p>✓ Clwk: 10.1-10.6 wkst. ✓ Hwk: Study for the test.</p>	28
29	<p>30 10.8</p> <p>Chapter 10 Test</p> <p>✓ Hwk: 10.8 wkst. (comparing linear, exponential, and quadratic functions)</p>					

Essential Questions:

- How can a quadratic equation be represented in various forms?
- Can you find and graph all critical information for a quadratic equation in various forms.
- Can you solve quadratic equations by using each of the following: square roots, completing the square, and the quadratic formula?
- What does it mean to solve a quadratic graphically?
- What are the differences in scenarios that depict a linear equation, versus an exponential, versus a quadratic?

Vocabulary:

- quadratic function
- parabola
- parent quadratic function
- vertex
- axis of symmetry
- maximum & minimum value
- quadratic equation
- completing the square
- quadratic formula
- discriminant

Homework Club ☺

Mondays & Wednesdays 3:00-4:30 in Ms. Dunham-Bay's Classroom #66

* Students have access to lesson tutorials on Ms. Dunham-Bay's YouTube channel.

<https://www.youtube.com/channel/UCfGZXVdXXDtV3NII4V0tR1A>

Go to the playlist, current unit you are working in, and select the lesson needed.

**Free online Tutor: sled.alaska.edu/homework.html