

Unit 3: Modeling and Analyzing Quadratic Functions

Must Do:

Complete the Unit 3 Sample Questions and check your answers. Mark the topics in which you will need more practice.

- _____ 3.1 Interpret the Structure of Expressions _____ out of 3 correct
- _____ 3.2 Write Expressions in Equivalent Forms to Solve Problems _____ out of 4 correct
- _____ 3.3 Create Equations that Describe Numbers or Relationships _____ out of 1 correct
- _____ 3.4 Solve Equations and Inequalities in One Variable _____ out of 4 correct
- _____ 3.5 Build a Function That Models a Relationship between Two Quantities _____ out of 3 correct
- _____ 3.6 Build New Functions from Existing Functions _____ out of 3 correct
- _____ 3.7 Interpret Functions that Arise in Applications in Terms of the Context _____ out of 3 correct
- _____ 3.8 Analyze Functions Using Different Representations _____ out of 2 correct

Helpful Resources Per Topic:

On Your Formula Sheet	Quadratic Functions (standard and vertex form); Quadratic Formula
Factor the Quadratics	<ol style="list-style-type: none"> 1. Khan Academy Factoring 2. Quizizz Collection https://quizizz.com/collection/5c9e328b7a908f001aa13ad0 3. USA Test Prep Standards <ol style="list-style-type: none"> a. Expressions 7
Solve the Quadratics	<ol style="list-style-type: none"> 1. Khan Academy Solving 2. Quizizz Collection https://quizizz.com/collection/5c9e328b7a908f001aa13ad0 3. Practice Worksheets https://www.kutasoftware.com/free.html 4. USA Test Prep Standards <ol style="list-style-type: none"> a. Equations 6 b. Functions 10
Quadratic Transformations	<ol style="list-style-type: none"> 1. Khan Academy Transformations
Graphing Quadratics	<ol style="list-style-type: none"> 1. Khan Academy Parabolas 2. Practice Worksheets https://www.kutasoftware.com/free.html 3. USA Test Prep Standards <ol style="list-style-type: none"> a. Functions 4, 7, 14
Arithmetic Sequences	<ol style="list-style-type: none"> 1. Khan Academy

[Arithmetic Sequences](#)

2. Quizizz Collection
<https://quizizz.com/collection/5c9e328b7a908f001aa13ad0>
3. USA Test Prep Standards
 - a. Functions 3, 13