

Topic: Unit 9: Quadratic Functions

Days: 9

Subject(s):

Grade(s):

Know:

Understand:

Do:

<p>Key vocabulary</p> <p>Axis of symmetry, vertex, domain, range, and intercepts of a parabola</p> <p>Quadratic formula</p> <p>Standard form</p> <p>Simplify radical expressions</p>	<p>Quadratic functions may be solved in a variety of ways to solve real world scenarios.</p> <p>Simplifying radical expressions using basic operations associated with real world problems.</p>	<p>Solve quadratic equations using quadratic formula.</p> <p>Change equations into standard form.</p> <p>Graph quadratic equations with and without technology.</p> <p>Identify axis of symmetry, vertex, domain, range.</p> <p>Apply quadratic formula to real world problems.</p> <p>Compare and contrast quadratic and linear functions.</p> <p>Add, subtract, multiply and divide radical expressions.</p>
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Which standards are students learning in this unit?

MA.912.A.2.13 Solve real-world problems involving relations and functions.

MA.912.A.6.1 Simplify radical expressions.

MA.912.A.6.2 Add, subtract, multiply, and divide radical expressions (square roots).

MA.912.A.7.1 Graph quadratic equations with and without technology.

.MA.912.A.7.2 Solve quadratic equations over real numbers by **factoring** and by using the quadratic formula.

MA.912.A.7.6 Identify the axis of symmetry, vertex, domain, range and intercept(s) for a given parabola

MA.912.A.7.8 Using quadratic equations to solve real-world problems.