

Place a checkmark or the date when items are completed. For tests, record the score if preferred.

Lesson	Explore	Practice 1	Mastery Check	Practice 2	Targeted Review	Lesson Test
23 Solving Polynomials with Factoring						
24 Completing the Square						
25 The Quadratic Formula						
26 Distance and Midpoint Formulas						

Lesson Objectives

Check each objective that the student has mastered.

Lesson 23

- Solve polynomial equations by factoring under the set of complex numbers.
- Determine the polynomial equation given the roots.
- Solve equations using the square root property under the set of complex numbers.

Lesson 25

- Solve quadratic equations using the quadratic formula.
- Determine the number of real or complex solutions by solving for the discriminant.

Lesson 24

- Complete the square when $a = 1$.
- Complete the square when $a \neq 0, 1$.

Lesson 26

- Determine the distance between two points on the coordinate plane.
- Solve for midpoints and endpoints using the midpoint formula.
- Apply distance and midpoint formulas to solve problems.

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Lesson	Explore	Practice 1	Mastery Check	Practice 2	Targeted Review	Lesson Test
27 Parabolas						
28 Circles						
29 Ellipses						
30 Hyperbolas						

Unit 3 Test

Date:

Score:

Midterm

Date:

Score:

Lesson Objectives

Check each objective that the student has mastered.

Lesson 27

- Write the equation of a parabola by completing the square given an equation or a graph.
- Determine the equation of a parabola given three points (system of equations).
- Graph the equations of parabolas with a vertical or horizontal axis of symmetry.
- Transform parabolas.

Lesson 29

- Write the equation of an ellipse using the given information.
- Graph an ellipse using the given information.
- Transform ellipses.

Lesson 28

- Write the equation of a circle with the given information (graph, points).
- Graph a circle from the given information.
- Transform circles.

Lesson 30

- Write the equation of a hyperbola using the given information.
- Graph a hyperbola using the given information.
- Transform hyperbolas.
- Determine the specific type of conic section (parabola, circle, ellipse, hyperbola).