

Name: _____

Date _____

Topic: Linear Quadratic Systems- Emphasis on Graphing - Worksheet 1

Solve the following:

$$y = -2x^2 + 8x + 6$$

$$x + y = 9$$

1. Find the axis of symmetry.
2. Make a table, and fill in values of y.
3. Graph the parabola.
4. Find the slope.
5. Find the y-intercept of the line.
6. Graph the line.
7. Find the points of intersection.

$$x^2 + y^2 = 16$$

$$y = -2$$

8. Graph the circle.
9. Graph the line.
10. Find the points of intersection.



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Topic: Linear Quadratic Systems- Emphasis on Graphing - Worksheet 2

Solve the following:

$$y = x^2 - 2x + 4$$

$$x + y = 6$$

1. Find the axis of symmetry.
2. Make a table, and fill in values of y.
3. Graph the parabola.
4. Find the slope.
5. Find the y-intercept of the line.
6. Graph the line.
7. Find the points of intersection.

$$x^2 + y^2 = 25$$

$$y = -5$$

8. Graph the circle.
9. Graph the line.
10. Find the points of intersection.



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Topic: Linear Quadratic Systems- Emphasis on Graphing - Worksheet 3

Solve the following:

$$y = x^2 + 4x - 2$$

$$x + y = 4$$

1. Find the axis of symmetry.
2. Make a table, and fill in values of y.
3. Graph the parabola.
4. Find the slope.
5. Find the y-intercept of the line.
6. Graph the line.
7. Find the points of intersection.

$$x^2 + y^2 = 36$$

$$y = 4$$

8. Graph the circle.
9. Graph the line.
10. Find the points of intersection.



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Topic: Linear Quadratic Systems- Emphasis on Graphing - Worksheet 4

Solve the following:

$$y = 2x^2 - 6x + 4$$

$$x + y = 8$$

1. Find the axis of symmetry.
2. Make a table, and fill in values of y.
3. Graph the parabola.
4. Find the slope.
5. Find the y-intercept of the line.
6. Graph the line.
7. Find the points of intersection.

$$x^2 + y^2 = 4$$

$$y = 2$$

8. Graph the circle.
9. Graph the line.
10. Find the points of intersection.



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Topic: Linear Quadratic Systems- Emphasis on Graphing - Worksheet 5

Solve the following:

$$y = x^2 - 8x + 2$$

$$x + y = 4$$

1. Find the axis of symmetry.
2. Make a table, and fill in values of y.
3. Graph the parabola.
4. Find the slope.
5. Find the y-intercept of the line.
6. Graph the line.
7. Find the points of intersection.

$$x^2 + y^2 = 9$$

$$y = 3$$

8. Graph the circle.
9. Graph the line.
10. Find the points of intersection.

