

Practice - Solving Quadratics

Name _____

рр 652-659

Period _

1.
$$x^2 + 5x + 6 = 0$$

5.
$$x(x+5) = y$$

2.
$$x^2 - 3 = 2x$$

6.
$$x^2 - 5x = 0$$

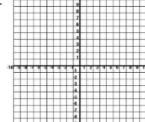
3.
$$(x-5)^2 = 100$$

7.
$$0 = x^2 + 12$$

4.
$$0 = x^2 - 4$$

8.
$$-3.2x^2 - x + 10 = y$$

- 9. Given $y = 2x^2 6x 8$, find the following information below.
 - a. Line of symmetry: _____
 - b. Min/Max vertex:
 - c. Solution(s):
 - d. Graph the quadratic.
 - e. Domain: _____ Range: ____



hWHELP SOLVING QUADE

Remember: When you are solving quadratic equations, GRAPHING or QUADRATIC FORMULA always works! Make sure you get all the terms on one side before using either method. If you use graphing, sketch a graph of the equation to prove your solutions.

As always, NO WORK = NO CREDIT!

1. {-2,-3}

2. {-1, 3}

3. {-5, 15} * Square Roots will work here!

4. {-2, 2} *Square Roots will work here!

5. {-5, 0}

6. {0, 5}

7. No Solution *Square Roots will work here!

8. {-1.93, 1.62}

9. Use your blue book from the beginning of the unit!

Make sure you plot at least 3 points to make the graph.

Algebra I – Unit 9: Topic 3 – Solving Quadratics by Graphing

Practice - Solving Quadratics by Graphing

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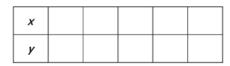
Date __

Period ____

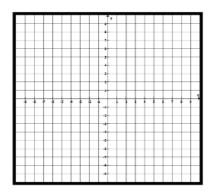
 $Complete \ the \ table \ including \ the \ solution (s) \ of \ the \ quadratic. \ Then \ graph \ the \ quadratic \ equation.$

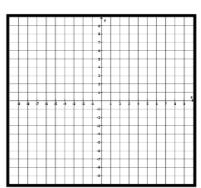
1.
$$x^2 + 7x + 10 = 0$$

2.
$$x^2 + 5x = -6$$

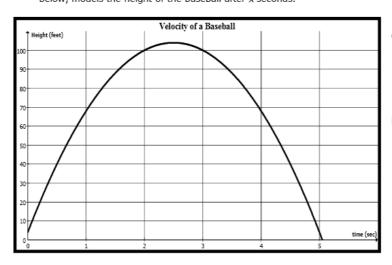








3. A baseball coach uses a pitching machine to simulate pop flies during practice. The baseball is shot out of the pitching machine with a velocity of 80 feet per second. The quadratic function $y = -16x^2 + 80x + 4$, shown below, models the height of the baseball after x seconds.



- A. Approximately, how long does the baseball stay in the air?
- B. What is the maximum height that the baseball reaches?