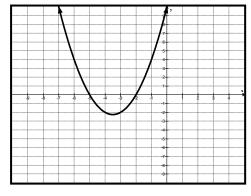
Practice - Solving Quadratics by Graphing

Name ______ Period______

1. What are the roots of the function graphed below?

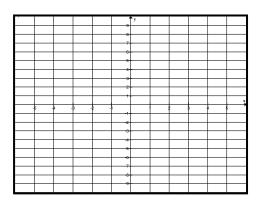


2. Complete the table including the solution(s) of the quadratic. Then graph the quadratic equation.

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

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У			

Solutions:	
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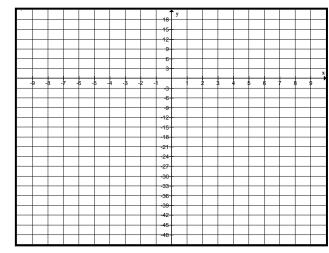


- 3. What are the zeros of the function f(x) = 2(x+8)(x-4)?
- 4. What are the *x*-intercepts of the graph of the equation $2x^2 3x 5$?

Solve each equation by graphing and state the roots.

5. $x^2 - 49 = 0$

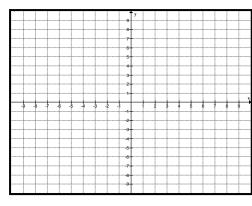
Roots:



Solve each equation by graphing and state the roots.

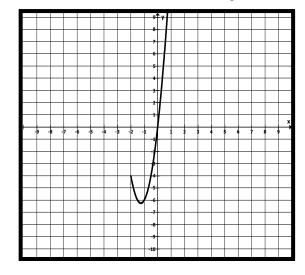
6. $9x = -x^2 - 18$

Roots:



Solve each equation using the graphing calculator.

- 7. $3x^2 8x + 4 = 0$
- 8. $2x^2 = -7x$
- 9. $-x^2 18 = 7x$
- 10. $-x^2 10x = 25$
- 11. Part of the graph of a quadratic equation is shown below. If the line of symmetry for this quadratic equation is x = -1.25, between which two integers will the other part of the graph intersect the *x*-axis?



- 12. The sum of the squares of two consecutive integers is 41. Find the integers.
- 13. A softball league has t teams and each team plays all the other teams in the league twice. The total number of games played, g, is shown by $g = t^2 t$. If the softball league plays a total of 72 games, how many teams are in the league?

PAP Algebra I: Unit 8 – Quadratics

PAP Algebra 1: Unit 8 – Quadratics							
14. Seven less than 4 times the square of a number is 18.	Find the number.						
15. The length of a rectangle is 3 cm more than the width.	The area is 70 cm ² . Find the dimensions of the rectangle.						