



This flip book contains your notes for the next 3 lessons. Glue it on to page 112 when it is complete.

The blue sheet goes on the outside. Match your tabs so it looks like the right. You may have to flip your paper(s). Glue or staple the 2 pages together along the spine.

Solving

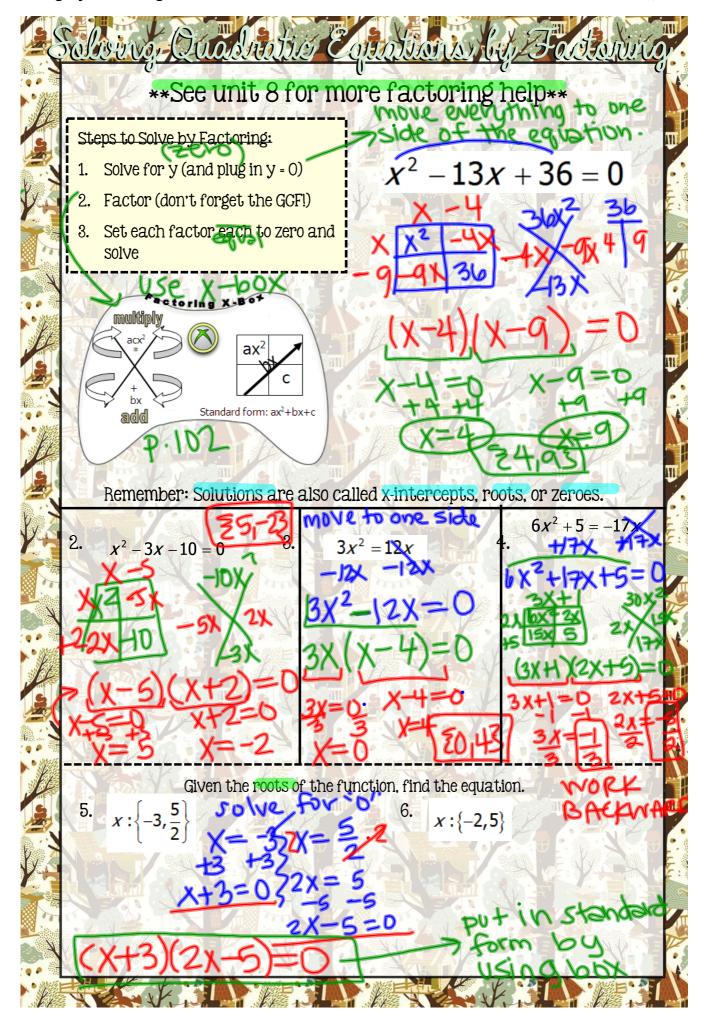
Quadratic

Equations...

By Factoring

By Quadratic Formula

By Graphing



Algebra I - Unit 9: Topic 3 - Solving Quadratics by Factoring

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Practice -	 Solving 	Quadratics	by	Factoring
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Date _____

pp 630-635

Solve the equations below by factoring 1.
$$(3x-2)(4x-3)=0$$

$$4x^2 - 6x + 9 = 6x$$

3.
$$x^2 = 8x - 16$$

4.
$$12x^2 - 1 = -x$$

5.
$$x^2 + 2x = 15$$

6.
$$2x^2 = -4 - 6x$$

Given the roots find the quadratic equation.

8.
$$x:\left\{-\frac{2}{5},4\right\}$$

Algebra I - Unit 9: Topic 3 - Solving Quadratics by Factoring

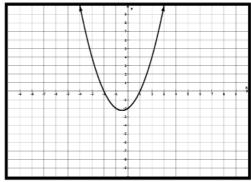
9. Which equation best represents the graph shown?

A
$$(x-2)(x+1) = y$$

B
$$(x+2)(x+1) = y$$

C
$$(x+2)(x-1) = y$$

D
$$(x-2)(x-1) = y$$



11. The area of a rectangular floor is described by the equation w(w-9) = 252 where w is the width of the floor in meters. What is the width of the floor?

12. A group of friends try to keep a beanbag from touching the ground without using their hands. Once the beanbag has been kicked, its height can be modeled by $h = -16t^2 + 14t + 2$, where h is the height in feet above the ground and t is the time in seconds. Find the time it takes the beanbag to reach the ground.

13. The length of a rectangle is 3 cm more than the width. The area is 70 square centimeters. Find the dimensions of the rectangle.