Friday, January 11, 2019

- Warm-up
 - Factor the following trinomials:

• Using the factors to solve...

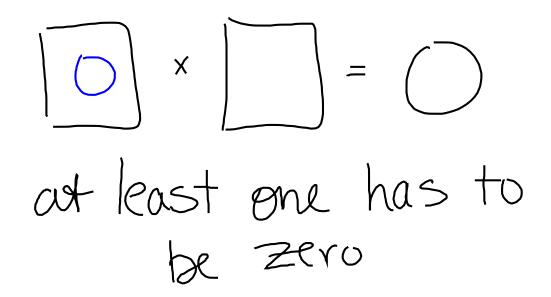
 $\left(\times + , , \right)$ $\left(\times + \right)$

Objectives:

 $(\chi + I)(\chi - I)$

Content: I will factor trinomials with an a value of 1 and use those factors to solve for x. **Social**: I will demonstrate my work to the group as well as the class.

How can I multiply to get zero?



Objectives:

Content: I will factor trinomials with an a value of 1 and use those factors to solve for x. **Social**: I will demonstrate my work to the group as well as the class. **Language**: I will write my factoring and solving

process clearly for myself and others.

So ... if a * b = 0, what must be true?

a=0 and/or b=0 Zero product property

Objectives:

Content: I will factor trinomials with an a value of 1 and use those factors to solve for x. **Social**: I will demonstrate my work to the group as well as the class.

9 So ... if (x + 3)(x - 6)= 0?

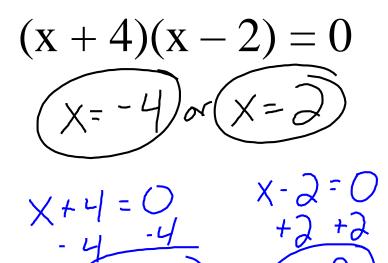
×+3=0 -3 -3 x=-3

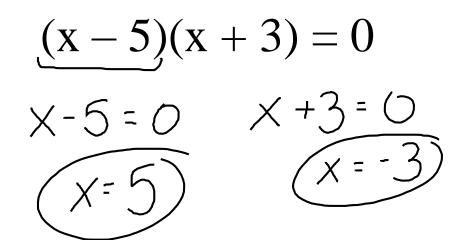
Objectives:

x=6

Content: I will factor trinomials with an a value of 1 and use those factors to solve for x. **Social**: I will demonstrate my work to the group as well as the class.

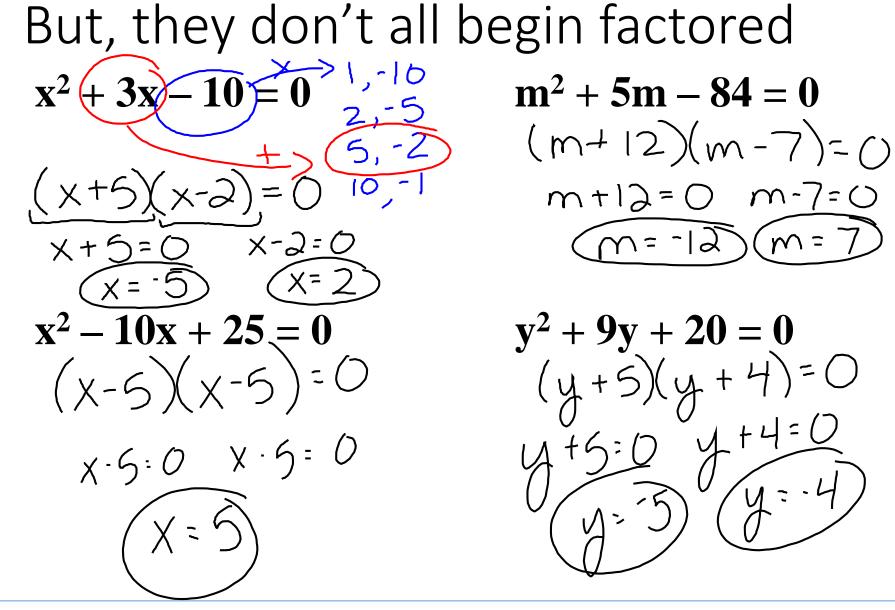
Try a couple





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What if a term is missing? x +3)=0 $x^2 + 3x = 0$ $x^2 - 25 = 0 \longrightarrow \chi^2 - 25 \neq 0$ x=-3 $\sqrt[3]{x^2+3x+0=0}$ +25 +25 X7 x2 125 (X+D)(X+3)=0(x-5)(x+5)=0x=505-5 X+0=0 x+3=0 X-5-0 X+5=0 X=5 X=5 x=0 x=·3

total of 4 required More Practice
$\chi^2 - 950$ all=
+q $+q$
JX-\$/9
$\chi = 3 \text{ or } \chi = 3$

Color My Math Solving Quadratic Equations by Factoring

x = -13	x = -2		x = -4
x = -1	x = 5		x = 4
x = 3	x = 2	x = -4	x = -4
x = 4	x = 11	x = 3	x = 1
x = 3	x = -6	x = -5	x = -5
x = 6	x = -1	x = 5	x = -4
x = -3	x=	x = -5	x = 4
x = -2		x = 2	x = 6

Solve each quadratic equation and then find the answers in the boxes above. Color the boxes according to the given pattern.

			-		-
$x^2 + 5x + 6 = 0$		$x^2 + 3x - 4 = 0$		$x^2 - 3x - 10 = 0$	
$x^2 - 7x + 12 = 0$		$x^2 - 25 = 0$		$x^2 - 10x + 24 = 0$	
$x^2 + 7x + 6 = 0$		$x^2 + x - 12 = 0$		$x^2 - 16 = 0$	
$x^2 + 3x - 10 = 0$		$x^2 - 9x + 18 = 0$		$x^2 + 9x + 20 = 0$	
$x^2 - 9 = 0$ V	9	$x^2 - 13x + 22 = 0$		x ² + 14x + 13 = 0	