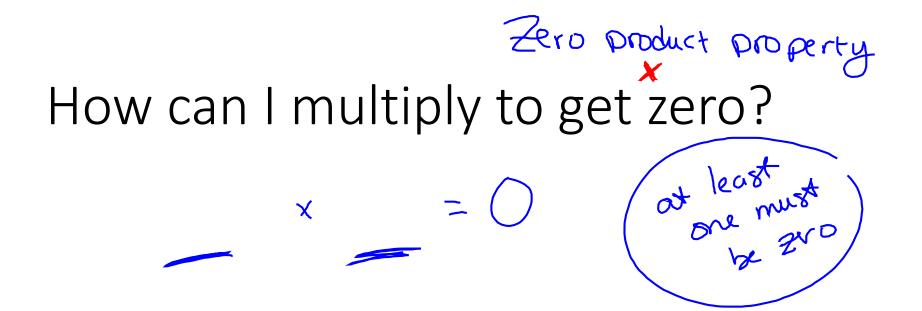
Tuesday, March 5, ect Square • Warm-up Factor the following trinomials: $\frac{x^2 - 0x - 1}{\left(\chi - 1\right)\left(\chi + 1\right)}$ Ditte

- Using the factors to solve...
- Using quadratic formula to solve

Objectives:

Content: I will solve quadratics both with factoring and quadratic formula. **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.



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

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

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Try a couple

$$(x + 4)(x - 2) = 0$$

$$\begin{array}{c} x + 4 = 0 & x - 2 = 0 \\ - 4 - 4 & + 2 + 2 \\ x = -4 & x = 2 \end{array}$$

$$(x-5)(x+3) = 0$$

$$x-5=0 \qquad x+3=0$$

$$+5+5 \qquad -3-3$$

$$x=5 \qquad x=-3$$

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But, they don't all begin factored 10 $x^2 + 3x - 10 = 0$ $m^2 + 5m - 84 = 0$ (x+6)(x-2)=0 (5 (m + 12)(m - 7) = 0X+5=0 X-2=0 -5-5 +2+2 m + 12 = 0 m - 7 = 0- 12 - 12 +7 + 7m = -12 m = 7x=5 x=2 $y^2 + 9y + 20 = 0$ $2x^2 - 20x + 50 = 0$ (y+5)(y+4)=0 $2(\chi^2 - 10\chi + 2S)$ 2(X-S)(x-S)=0y+5:0 y+4=0 -5-5 y-4-4 2(x-5)2=D X-5=0 V= .5 **Objectives: Content**: I will solve quadratics both with factoring and quadratic formula. **Social**: I will demonstrate my work to the group as well as the class.

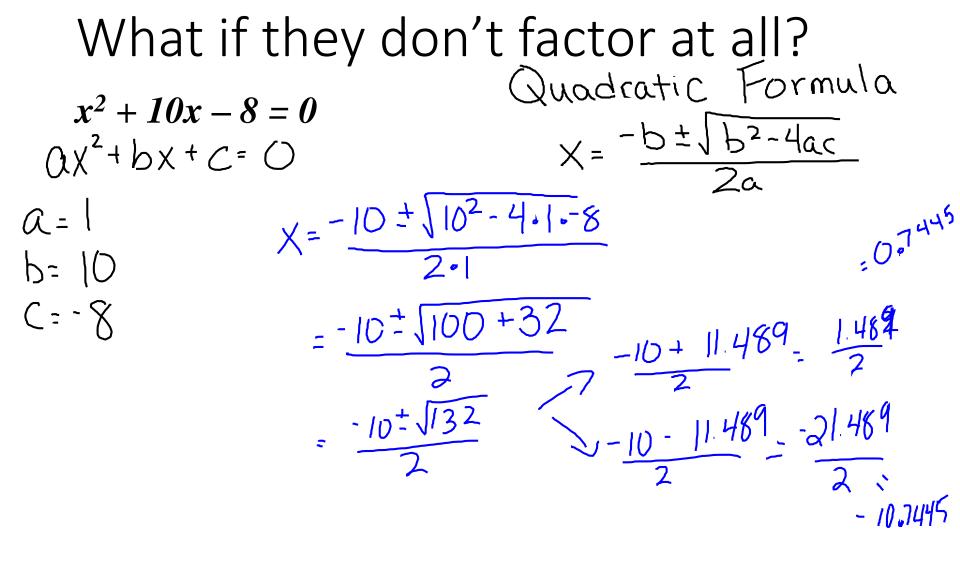
What if a term is missing?

-25 = 025_+25 $X = \frac{+}{-}5$ X+5 X= 5 -> x2+0x-25=0 (x - 5)(x + 5) = 0x-5:0 x+5:0 x:5 x=-5

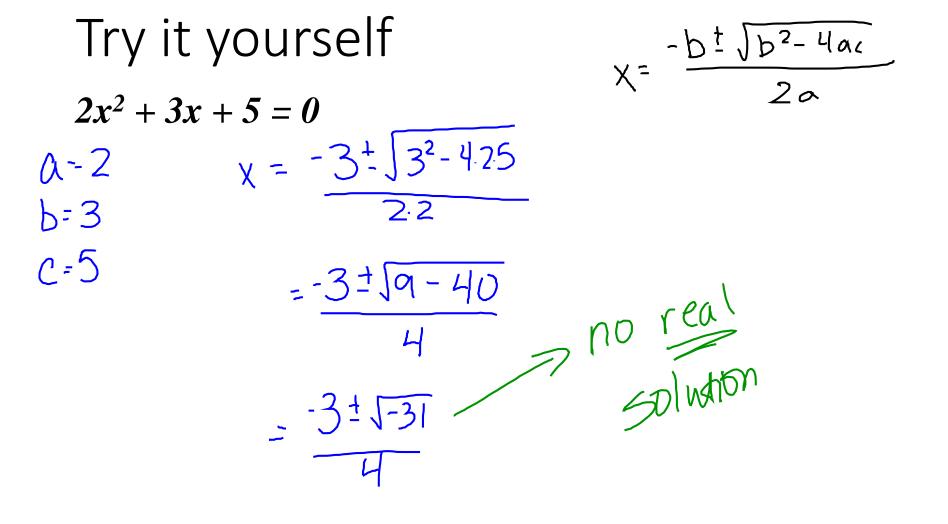
 $\underbrace{x^2}_{\times} + \underbrace{3x}_{\times} = 0$ $\times (\times +3) = 0$ X=0 X+3=0 $\begin{array}{c} \chi^{2} + 3\chi^{+} & 0 = 0 \\ (\chi + 0)(\chi + 3) = 0 \\ \chi^{+} & 0 \\ \chi^{+} & \chi^{+} & 3 \\ \chi^{-} & \chi^{+} & 3 \\ \chi^{-} & \chi^{-} & 3 \\ \chi^{-} & \chi^{-} & 3 \end{array}$

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Practice

Which of the following equations could represent f?

A)
$$f(x) = x^2 - 4$$

B) $f(x) = x^2 - 2$
C) $f(x) = x^2 + 2$
D) $f(x) = x^2 + 4$

Exit Slip

Choose an answer

 Explain your reasoning (show your process).

 Choose an incorrect answer, explain the mistake someone who chose that one made.

