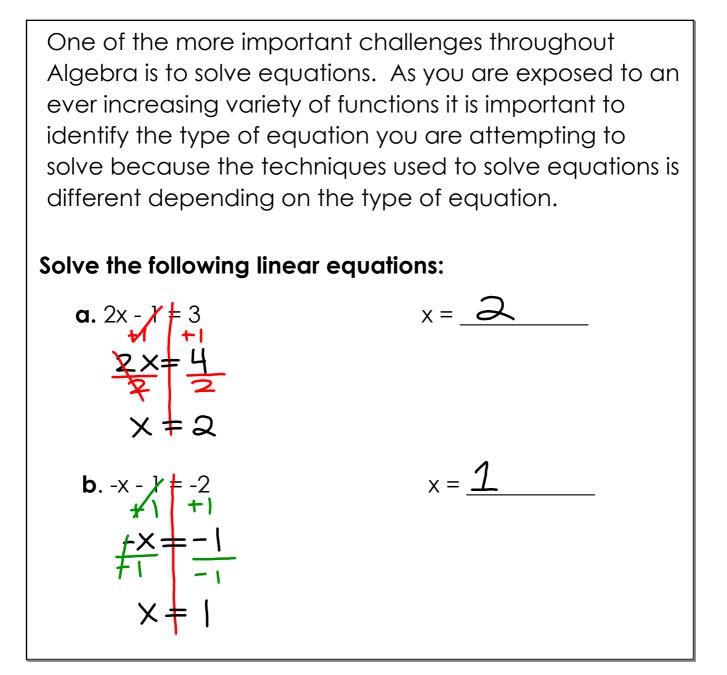
Quadratics 2a - Quadratic Functions: Solving Factored Form

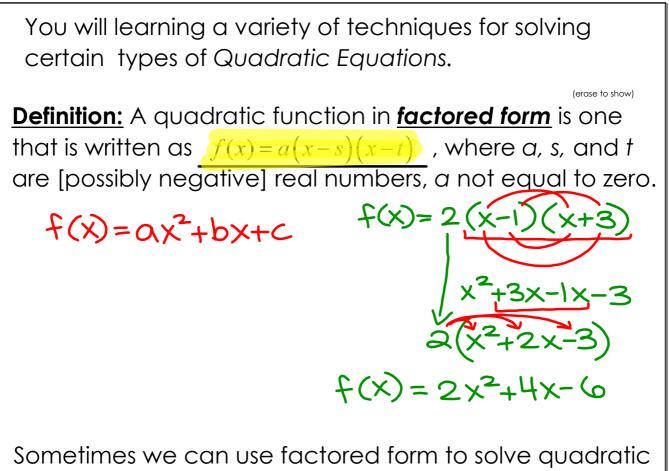
Standards: F-IF.4 & F-IF.7

GLOs: #1 Self Directed Learner

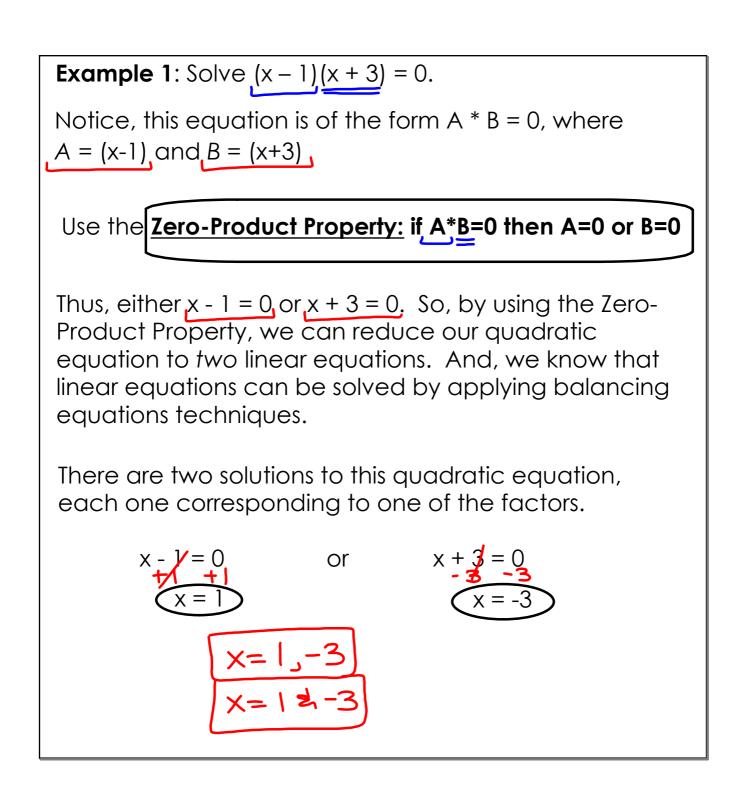
<u>Math Practice</u>: Make sense of problems & persevere in solving them

Learning Target: How does the Zero-Product Property help us solve quadratic functions?

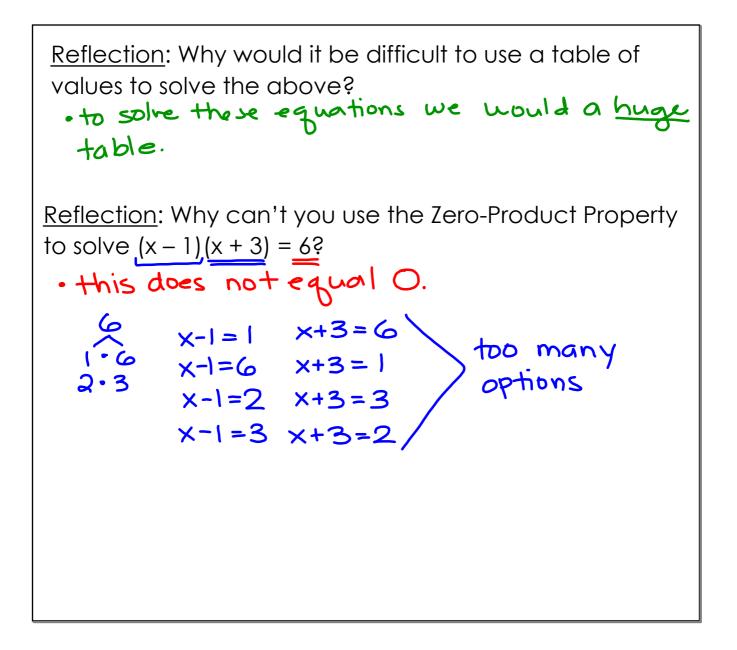




Sometimes we can use factored form to solve quadratic equations.



Use the Zero-Product Property to solve the following quadratic equations presented in factored form. Show all work! 1. (x-4)(x+10) = 0 x = 4 = 10x - 4 = 0 x + 10 = 0+4 +4 - 10 -10 X=4 X=-10 **2.** $(x + \frac{1}{4})(x + 9) = 0$ $x = \frac{-\frac{1}{4}}{4} = \frac{-9}{4}$ 3. 2(x-4)(x+10) = 0 x = 4 = -10 x-4 = 0 x+10 = 0 x-4 = 0 x+10 = 0 x-10 = 0X=4 X=-10 **4.** 2x(x+10) = 0 x = 0 = -10 $\frac{3}{2} \times = 0$ $\times + 10 = 0$ -10X=0 X=-10 5. (x-40)(x+100) = 0 $x = \frac{40 - 100}{100}$ X-40=0 X+100=0 +40 +40 -100 -100 X = 40 X = -100



Entrance Pass: Due at next class

Solve the following using the Zero-Product Property.

$$(2x-5)(x+9)=0$$