Objective:

Example 1: Find the zeros for $10 = 4x^2 - 4x - 5$

STEPS

- 1. In standard form and equal to 0
- 2. Factor (a time c, what adds to b)
- 3. Set each factor equal to 0 (zero product property)
- 4. Solve each equation for x
- 5. Write answers as ordered pairs(*x*-intercepts)

***Finding the zeros means the same as solving for the variable.

Example 2: Find the zeros for $-10x = 8x^2 - 16x - 5$

Practice: Read and solve the following situations. Be sure to define your variable and show all your work.

	ched from the top of a 48-foo t , at any given second, t , is m the air?			
Where does the	e initial height go in the equati	on?		
Where does the	e initial velocity go in the equa	ation?		
Define your va	riables.			
Write the equat	ion that will answer the quest	ion in the story.		
Solve the equat	ion. Show work.			
Explain your ai	nswer in a complete sentence.			
	agle is 60 square feet. If the le		he width, what is the width?	
Define width:	Define length:	Given area:	Area formula:	
Equation:				
Solve:				