MathFLIX CHALLENGE

Solving Quadratic Equations: Perfect Squares

Complete the table.

Expanded form equations	Factored form equations	Equations	Solutions
$x^2 - 4 = 0$	$(x + 2)(x - 2) = 0$	$x + 2 = 0$ $x - 2 = 0$	-2 or 2
$x^2 - 9 = 0$	$(x + 3)(x - 3) = 0$	$x + 3 = 0$ $x - 3 =$	
$x^2 - 25 = 0$	$(x + 5)$ ( ) $= 0$	$x + 5 = 0$ $x - 5 =$	
$x^2 - 100 = 0$	$(x +$ $)(x -$ $) = 0$	$x +$ 10 $x -$	
$25x^2 - 25 = 0$	$(5x +$ $)(5x -$ $) = 0$		
$25x^2 - 36 = 0$	$(5x +$ $)$ ($) = 0$		
$36x^2 - 1 = 0$	( ) ($) = 0$		
$x^2 + 4x + 4 = 0$	$(x + 2)(x + 2) = 0$ **or** $(x + 2)^2 = 0$	$x + 2 = 0$	$x = -2$
$x^2 + 6x + 9 = 0$	$(x + 3)(x + 3) = 0$ **or** ($)^2 = 0$		
$x^2 + 10x + 25 = 0$	$(x + 5)$ ($) = 0$ **or** ($)^2 = 0$		
$x^2 + 20x + 100 = 0$	( ) ($) = 0$		
$25x^2 + 50x + 25 = 0$	$(5x +$ $)$ ($) = 0$		
$25x^2 + 60x + 36 = 0$	$(5x +$ $)$ ($) = 0$		
$36x^2 + 12x + 1 = 0$	( ) ($) = 0$		