















CLASSROOM EXAMPLE 3	Solvi	Solving a Quadratic Equation with a Missing Constant Term								
Solve $x^2 + 12x =$	0									
Solution:										
Factor.	x(x + 12	2) = 0								
		<i>x</i> = 0	o	r	x+12	= 0				
		<i>x</i> = 0	0	r	x =	–12				
Check.	<i>x</i> <sup>2</sup> + 1	2 <i>x</i> = 0			x <sup>2</sup> +	12 <i>x</i> = 0				
	) <sup>2</sup> + 12(0) = 0			(-12) <sup>2</sup> + 12(-12) = 0						
	True	0 = 0				0 = 0	True			
C			The s	solutio	on set is	{–12, 0}.		Slide 6 5, 9		

CLASSROOM EXAMPLE 4	CLASSROOM EXAMPLE 4 Solving a Quadratic Equation with a Missing Linear Ter								
Solve $5x^2 - 80 = 0$	כ								
Solution:									
$5x^2 - 80 = 5(x^4)$	<sup>2</sup> – 16)		Factor out 5.						
= 5( <i>x</i>	- 4)( <i>x</i> + 4	I)	Factor.						
x	-4=0	or	x + 4 = 0	Solve.					
	<i>x</i> = 4	or	x = -4						
Check that the so	lution set	is {	4, 4}.						















