Name:	Date:

Class/Home worksheet: Alg2H Quadratic equation: using factoring and completing the square. (book chapter 8, page 342 to 345)

An equation of the type				
$ax^2 + bx + c = 0$				
where a,b, and c are constants, and $a \neq 0$, is called standard form of the quadratic equation.				
Solve: $3x^2 + 5x = 0$	Solve: $2x^2 + 7x = 0$			
Solve: $5x^2 - 7 = 0$	Solve: $3x^2 - 6 = 0$			
Solve: $6x^2 - 7x + 2 = 0$	Solve: $14x^2 + 2 = 11x$			

Completing the Square (P. 343) Solve by completing the square: $x^2 - 2x - 8 = 0$ Solve by completing the square: $4x^2 + 12x - 7 = 0$ Solve by completing the square: $3x^2 + 18x + 24 = 0$

From the book, Page 345-6

(1) Solve:	$7x^2 -$	3x =	0
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(6) Solve:
$$6x^2 - x - 2 = 0$$

(11) Solve:
$$3x^2 + 7x = 20$$

(18) Solve:
$$4x^2 = 20$$

$$x^2 - 4x + 1 = 0$$

(43) Solve by completing the square:

$$y^2 + 6y - 3 = 0$$