Math 2 Unit 2B Test Review Solve the following by factorin

Name_____

Solve the following by factoring.			
1)	$x^2 = 15x - 56$	2)	$3x^2 + 14x - 49 = 0$
3)	$2x^2 - 14x = -3x$	4)	$5x^2 = 35x - 60$

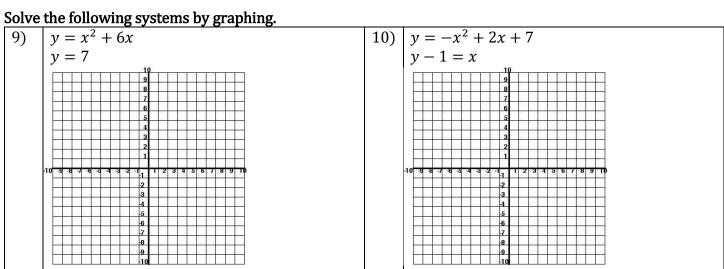
Solve the following using completing the square/square root method. Be sure to simplify all radicals.

		bquare 100	enieureu ze sure te simping un ruureus.
5)	$(x+3)^2 - 98 = 0$	6)	$x^2 + 12x + 61 = 0$

Solve the following using the quadratic formula. Be sure to simplify all radicals.

7)	$x^2 + 6x + 25 = 0$	8)	$-2x^2 + 8x + 3 = 0$

Write down the formula for the discriminant and what the value of the discriminant tells you about the number and types of solutions.



Solve the following systems algebraically.

11)	$y = x^{2} + 6x + 10$ y = -2x - 6	12)	$y = x^2 + 7x + 5$ y - x = -3
	y = -2x - 6		y - x = -3

Graph the following inequalities.

13) $y < x^2 - 6x + 2$	14) $y \le -x^2 - 4x + 4$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	10 9 8 7 6 5 3