Honors 1

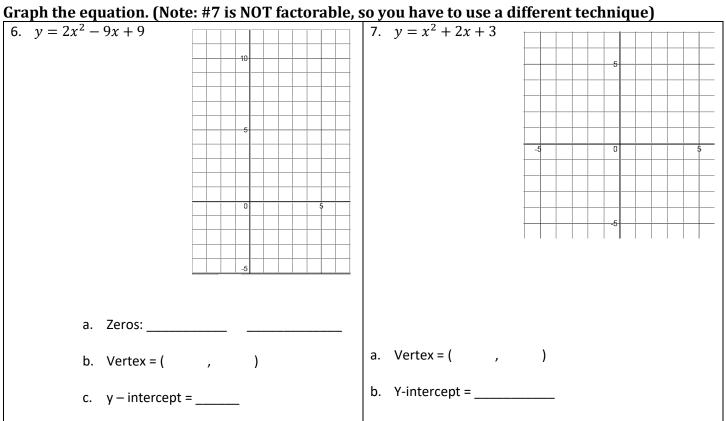
Quadratics Unit 2 Practice Test and Chapter 9

Factor each trinomial.

1. $3x^2 - 11x - 20$	2. $4x^2 - 13x + 10$	3. $2x^2 + 22x + 56$

Solve the equation by factoring.

4. $3x^2 + 17x + 20 = 0$	5. $-3x^2 - 16 = -26x$



Solve.			
8. $8x^2 - 50 = 0$	9. $(x+5)^2 + 8 = 44$	10. $2(x-2)^2 - 7 = 91$	

11. Find the value of c that makes each trinomial a	12. Solve the equation by completing the square.	
perfect square.	$x^2 + 3x + 21 = 22$	
$x^2 + 26x + ___ =$		
$x^2 - 4x + ___ =$		
$x^2 + 5x + ___=$		
13. Convert from standard form to vertex form. State	14. Solve by the quadratic forumula and show your steps .	
where the vertex is located.	$4x^2 + 5x = 6$	
$y = x^2 + 12x + 32$	4x + 5x = 0	
y = x + 12x + 32		
15. Solve by any method of your choice.	16. Solve by any method of your choice.	
1		
$\frac{1}{2}(x+4)^2 + 10 = 42$	$\frac{(x+3)^2}{x} = \frac{-7}{5}$	
Δ	x 5	
17. Find the value of A in the function so that the function $f(x)$	18. State whether each situation has a positive, negative	
has an x-intercept at $x = 4$ and a vertex at $(1, -9)$:	or zero discriminant.	
$f(x) = x^2 - 2x + A$	$y = 3x^2 - 4x + 7$ / Two x-intercepts	

C - 1-