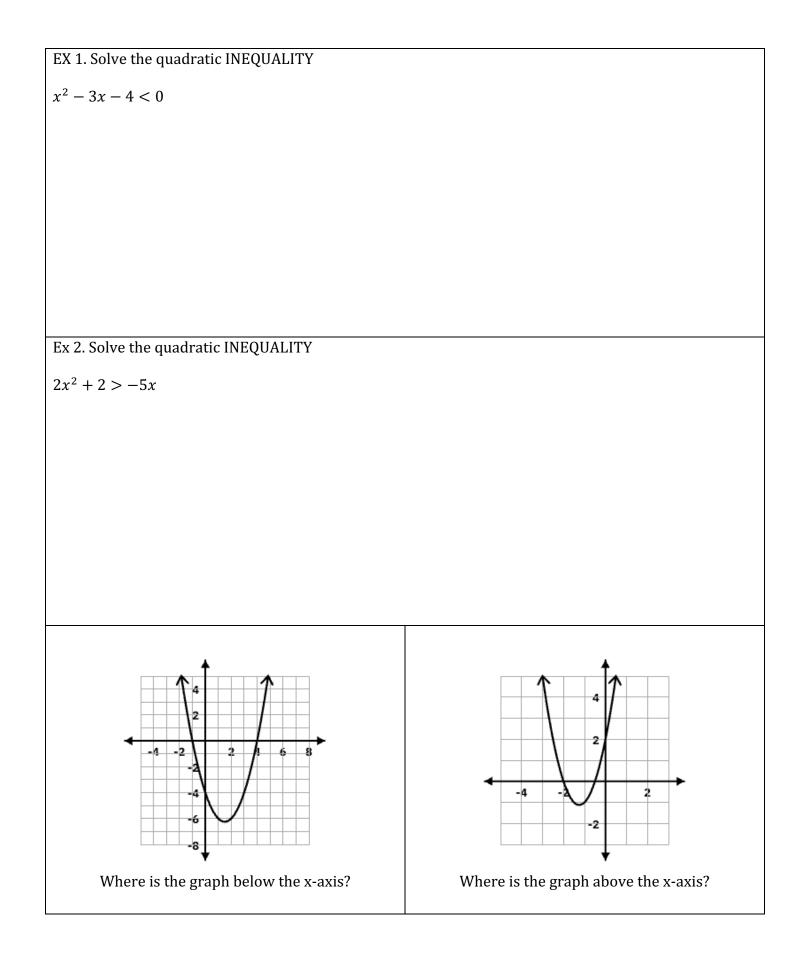
Algebra 2 Solving Quadratic Inequalities—NOTES

Name:	
Date:	

Review of factoring:	Review: Operations with square roots.
a) $4x^2 - 9$	a) $(7\sqrt{3} - 5\sqrt{6})(\sqrt{2} + 3)$
b) $x^3 - 27$	b) $\frac{7}{2+\sqrt{3}}$
c) $8x^3 + 125$	
Review: Solve the quadratic EQ by factoring: a) $4x^2 - 5x - 6 = 0$	Review: Solve the radical equation. Sometimes you get an answer that is extraneous, so you will need to check your answers when you solve a radical equation a) $\sqrt{x + 30} = x$
	b) $\sqrt[3]{2x-9} - 1 = 2$



Algebra 2 Solving Quadratic Inequalities—ASSIGNMENT

Name:	 	 
Date:	 	

1. Solve the Quadratic Inequality.	2. Solve the Quadratic Inequality.
$x^2 + 10x + 9 < 0$	$x^2 - 11x \ge -28$
3. Solve the Quadratic Inequality.	4. Solve the Quadratic Inequality. (hint: you will need
$3x^2 - 13x > -10$	to remember how to factor problems with two terms. We
	did it in the notes today)
	$4x^2 < 25$

5. Factor	6. Solve the radical equation.
	$x - 6 = \sqrt{3x}$
a) $64x^3 - 343$	
b) $t^3 + 1000$	
7. Solve the radical equation	8. Solve the equation by using square roots.
$\sqrt{2x+7} = x+4$	$-2x^2 + 1 = -6$
9. Find the zeros of the function.	10. What did I do wrong in this problem?? Find
$f(x) = x^2 - 8x$	and correct my mistake.
	$\sqrt[3]{3x-8} = 4$
	$\left(\sqrt[3]{3x-8}\right)^3 = 4$
	3x - 8 = 4
	3x = 12
	x = 4
L	1