Academic Algebra 1 Notes...

STANDALD FORM OF A Q.E. Ax2+ Bx+C=0

Date:	

10R Review all the methods to solve Quadratic Equations

ME	etnods	When to Use	
1)	Factoring	Use when a quadratic equation can be	easily.
2)	Graphing	Use when <u>approximate</u> solutions are ade The solutions are the <u>Xintercepts</u> .	quate. X
3)	Finding square roots	Use when solving an equation that can be written in $X^2 = \pm 1$. Remember $X = \pm 1$	
4)	Quadratic formula	Can be used for <u>ALL</u> quadratic equation.	
5)	Algebra 2 Method Completing the square	Can be used for any quadratic equation ax ² + bx + c simplest to apply when <u>a = 1</u> and b is an <u>even</u>	

Choose a solution method

Tell what method(s) you would use to solve the quadratic equation. Explain your choice(s).

a. $6x^2 - 11x + 7 = 0$

- would result in many fractions.
- So, the best method to solve this quadratic equation would be

b. $4x^2 - 36 = 0$

- Since this quadratic equation would be easy to put in the form $\frac{Z}{Z} \pm \frac{1}{2}$;

 The best method to solve this quadratic equation would be $\frac{Z}{Z} \pm \frac{1}{2} \pm \frac{1}{2}$;

c. $x^2 + 8x = 9$

- Since this quadratic equation would be easy to put in STANDALD form and then FACTURED BECAUSE A=1;