Algebra 1

Unit 2 Part 2

Solving Quadratic Equations

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
February 22nd	February 23rd	February 24th	February 25th	February 26th
Factoring	*Unit 2 Part 1 Test Opens*	*Unit 2 Part 1 Test due at Midnight*	Solving Quadratics by Factoring	Solving Quadratics by Factoring
March 1st	March 2nd	March 3rd	March 4th	March 5th
Simplifying Radicals Solving Quadratics by Square Roots	Solving Quadratics by Square Roots **Unit 2 Part 2 Quiz Opens**	**Unit 2 Part 2 Quiz due at Midnight**	Solving Quadratics by Completing the Square	Solving Quadratics by Completing the Square The Discriminant
March 8th	March 9th	March 10th	March 11th	March 12th
The Discriminant Solving Quadratics by the Quadratic Formula	Solving Quadratics by the Quadratic Formula **Unit 2 Part 2 Test Opens**	**Unit 2 Part 2 Test due at Midnight**		

Solving Quadratic Equations by Factoring

To solve a quadratic equation by factoring, you must…

① _____

② _____

③ _____

④ _____

Note: the solutions to quadratic equations are known as solutions, zeroes, roots, and x-intercepts

Examples:

1) $x^2 + 2x - 3 = 0$

2) $x^2 - 11x = -30$

3) $3x^2 - 75 = 0$

4) $15x^2 - 8x + 1 = 0$

5) $2x^2 + 4x - 20 = 10$

6) $9x^2 - 4 = 0$

7) $4x^2 + 10x + 9 = -3x$

8) $16x^2 - 24x = -9$

Solving Quadratics by Factoring – Matching WS

A: $\{2, 0\}$	B: $\{-1, 4\}$	C: $\left\{\frac{5}{2}, -3\right\}$	D: $\{-3, -4\}$
E: $\{2, 3\}$	F: $\left\{-\frac{4}{3}, 1\right\}$	G: $\left\{\frac{3}{5}, -5\right\}$	H: $\left\{\frac{1}{3}, -1\right\}$

1) $4n^2 - 8n = 0$

2) $x^2 + 7x + 12 = 0$

3) $10a^2 + 5a - 75 = 0$

4) $3k^2 + 2k - 1 = 0$

5) $20a^2 + 88a - 62 = -2$

6) $2x^2 - 6x - 4 = 4$

7) $4n^2 - 20n + 25 = 1$

8) $4p^2 - 4 = -p + p^2$