WARM-UP

$$x = \frac{-b \pm \sqrt{b^2-4ac}}{2a}$$

$x^2 - 5x = 1$

(1) Put equation = 0 find a = 1 b = −5 c = −1	(2) Find the discriminant 29
(3) How many and what type of solutions 2 Real	(4) Use the quadratic formula to solve. $\frac{-(-5) \pm \sqrt{29}}{2(1)}$ Solutions $\frac{5 \pm \sqrt{29}}{2}$

Name_____

Simultaneous Round Table (A)

$x = \frac{-b \pm \sqrt{b^2-4ac}}{2a}$

Everyone has a Paper—Work at the Same Time—Pass at the Same Time

1) Set the equation equal to zero and find the values of a, b, and c. $-x^2 - 16 = -10x$ $+10x \quad +10x$ $-x^2+10x-16=0$ $a=-1$ $b=10$ $c=-16$	2) Find the discriminant. $(10)^2 - 4(-1)(-16)$ $100 - 64$ 36
3) How many and what type of solutions will there be? 2 Real (Rational) Solutions	4) Solve the problem using the quadratic formula. Simplify your answers. $x = \frac{-(10) \pm \sqrt{36}}{2(-1)}$ $x = \frac{-10 \pm 6}{-2}$ $\frac{-10+6}{-2} = \frac{-4}{-2} = 2$ $\frac{-10-6}{-2} = \frac{-16}{-2} = 8$

$x = 2 \quad x = 8$

Simultaneous Round Table (B)

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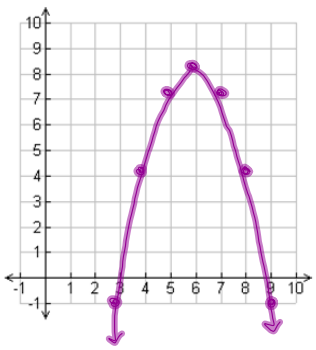
5) Find the vertex of $y = -x^2 + 10x - 16$ (5, 9)	6) Graph the equation. x: 3, 4, 5, 6, 7 y: 5, 8, 9, 8, 5
7) Find the domain. $\mathbb{R}$	8) Find the range. $y \leq 9$



Date Covered	LT Letter	Learning Target (LT) (What you should know)	Practice Problems	Homework Score	Self-Evaluation (Do you know it?)
Feb. 11	5.2 L	I can solve quadratic equations using the quadratic formula.	5.2 L #3 – 7 P-39 ← typo		☹ 😐 ☺
Feb. 12	5.2 M		5.2 M #1-13 P-41		
Feb. 13			Pink Worksheet		
Feb. 18	5.3 A	I can calculate the discriminant and interpret the number and type of solutions for a quadratic equation.	5.3 B #1, 4 – 7 P-59		☹ 😐 ☺
Feb. 19	5.3 B		Orange Worksheet ODDS		
Feb. 20	5.2 N	I can solve quadratic equations by choosing the best method (factoring, graphing, square roots or quadratic formula)	5.2 N #2 – 3 P-43		☹ 😐 ☺
Feb. 23	5.2 O		Yellow Sheet		