

ALGEBRA 2 - CHAPTER 2 REVIEW ROUNDS

ROUND 1

- A) Sketch $y = (x-4)^2 + 2$. Identify the vertex
- B) Sketch $y = 2|x+2| + 3$
What is the Domain and Range
- C) Sketch $y = \sqrt{x-3}$
What is the locator
- D) Put $y = x^2 - 20x + 2$ in vertex form,
How has it transformed the parent graph $y = x^2$

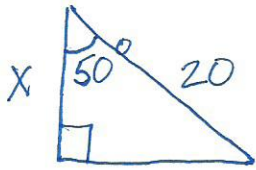
ROUND 2

Solve the following Quadratics

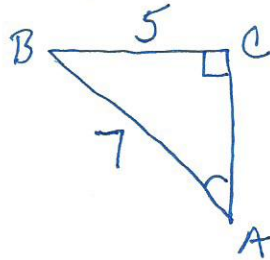
- A) $y = 2x^2 + 8x$
- B) $y = (x+4)^2 - 25$
- C) $y = x^2 - 5x + 2$
- D) $y = 3x^2 + 6x + 3$

ROUND 3

A) Solve for x



B) Find $m\angle A$



C) Find the distance between Points A and B
 $A(-6, 2)$ $B(3, 5)$

D) Write an equation passing through $(4, -4)$ and $(6, -1)$

ROUND 4

A) Write an exponential function passing through $(2, 9)$ and $(4, 324)$

B) A nose sprays water 40 feet away and peaks at 15 ft. Sketch a diagram and write the equation that models the path

C) Simplify $(2x)^{-3} 8^{1/3}$

D) Simplify $\sqrt{32x^5}$

BONUS

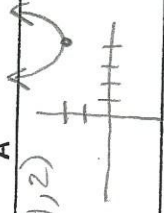
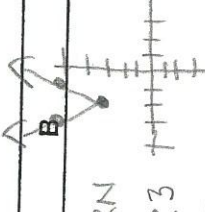
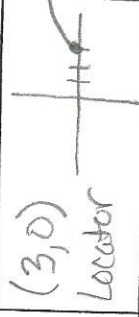
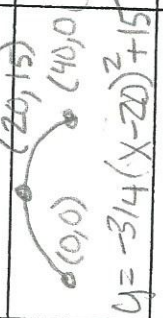
Put the following into vertex form

$$y = 12x^2 - 60x + 7$$

Rounds Review Game
Unit CHAPTER 2

Names of group members

KEY

	A	B	C	D	Total Points
1	$V(4,2)$ 	 D: ARN R: $y \geq 3$	$(3,0)$ Locator 	$y = (x-10)^2 - 98$	
2	$X=0$ $X=-4$	$X=-9$ $X=1$	$\frac{5 \pm \sqrt{17}}{2}$	$X=-1$	
3	$\cos 50 = X/20$ $X = 12.9$	$\sin^{-1} 5/7 = M \angle A$ 45.6°	$\sqrt{90} = 3\sqrt{10}$ $= 9.5$	$y = \frac{3}{2}x - 10$	
4	$y = .25(6)^x$		$\frac{1}{4}x^3$	$4x^2\sqrt{2x}$	
5	BONUS: $y = 12(x - \frac{5}{2})^2 - 68$				
6					
7					
8					

Rounds Total