

Reporting Category 1

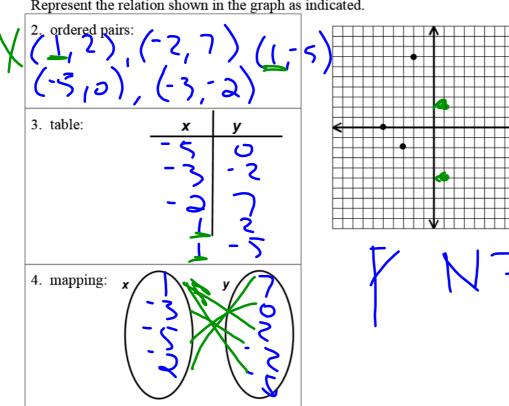
A.1D Multiple Representation of functional relationships.

Part I

1. Paul received a gift card for \$75 worth of gym visits at World Fitness. The cost of each visit is \$2.50. Create a table that best describes b, the balance remaining on the gift card after he visits n times.

n	b	
0	75.00	
1	72.50	<u>つ</u>
2	70.0	O
3	67.5	O
4	65.0	ں

Represent the relation shown in the graph as indicated.



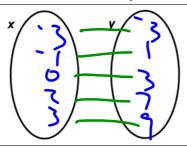
## Reporting Category 1

5., ordered pairs:

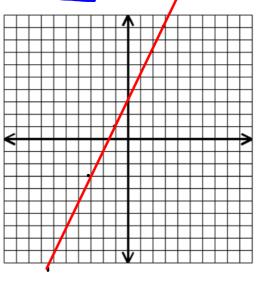
6. table:

, , ,	17,	
x	у	
-3 -1 0 2 3	اً س- هـ	

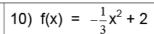
7. mapping: x

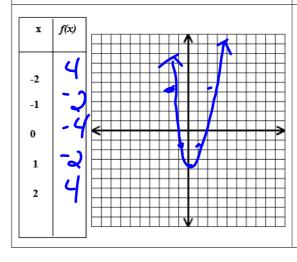


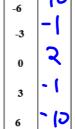


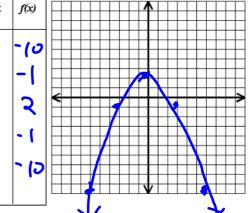


**Graph the following functions:** 9)  $y = 2x^2 - 4$ 









# **Inequalities**

<

LESS THAN

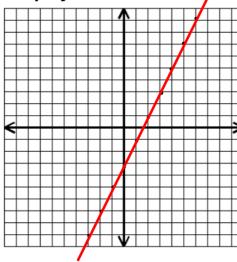
GREATEM THAN <

LESS THAN OR EQUA(  $\geq$ 

GREATER THAN OR EQUAL

Reporting Category 1

Graph  $y \le 2x - 3$ 



What would the graph look like for...

≤ : Sour line, shade BELOV

 $\geq : \frac{\text{Solid}}{\text{line, shade}} \frac{A \text{ Nove}}{\text{E}}$ 

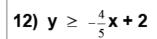
< : Dasticine, shade BELOW

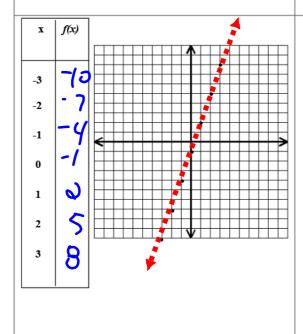
> : <u>PASHED</u>ine, shade <u>A No UE</u>

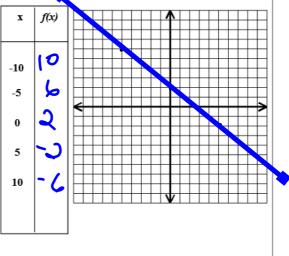
SOLID

DASHED.

11) 
$$y > 3x - 1$$



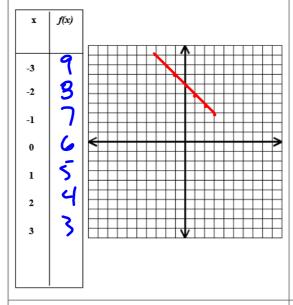


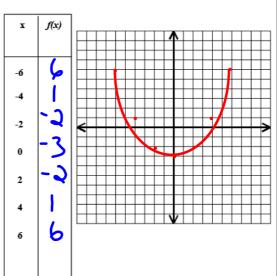


## Reporting Category 1

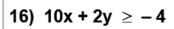
13) 
$$x + y < 6$$

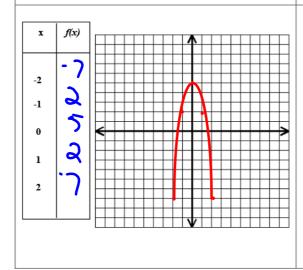
14) 
$$y \le \frac{1}{4}x^2 - 3$$

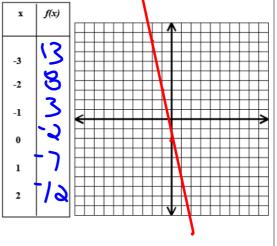


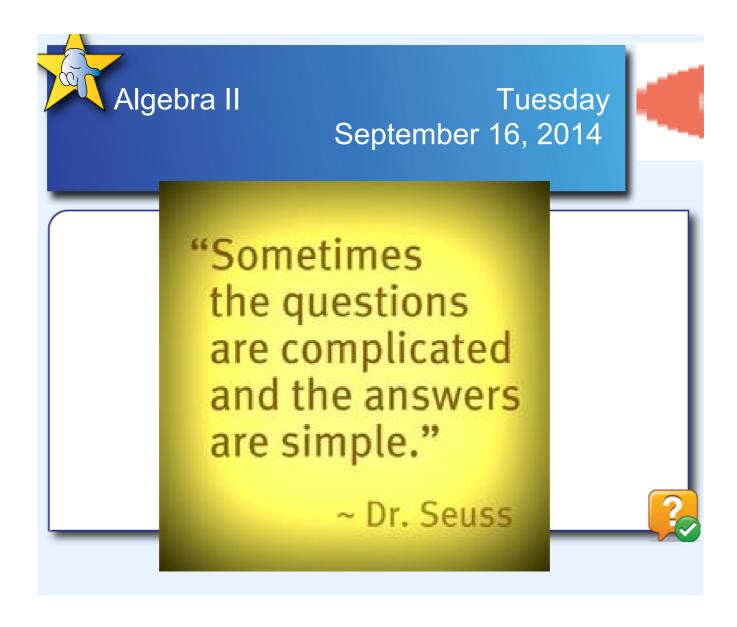


15) 
$$y > -3x^2 + 5$$







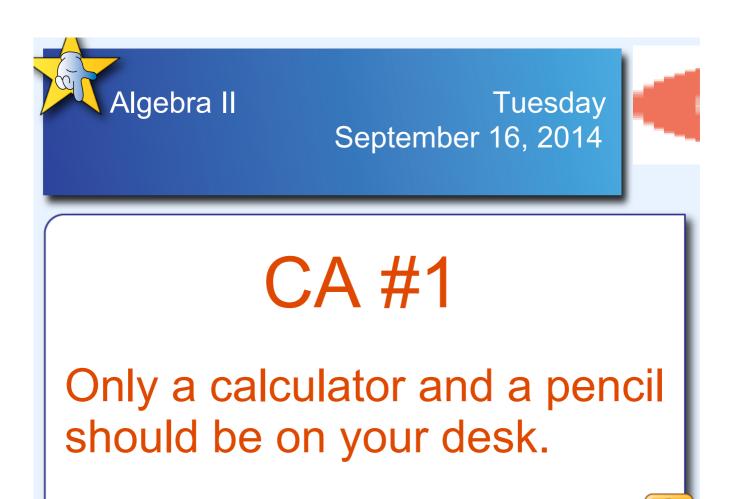


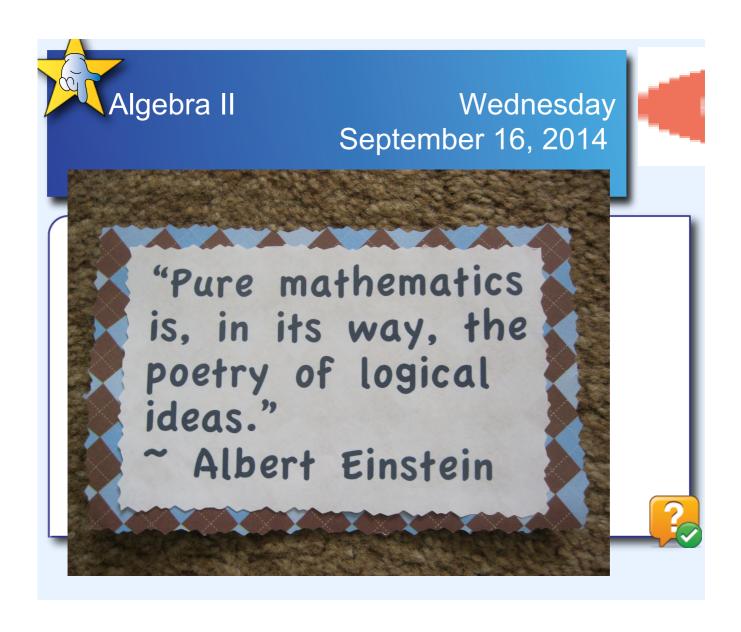


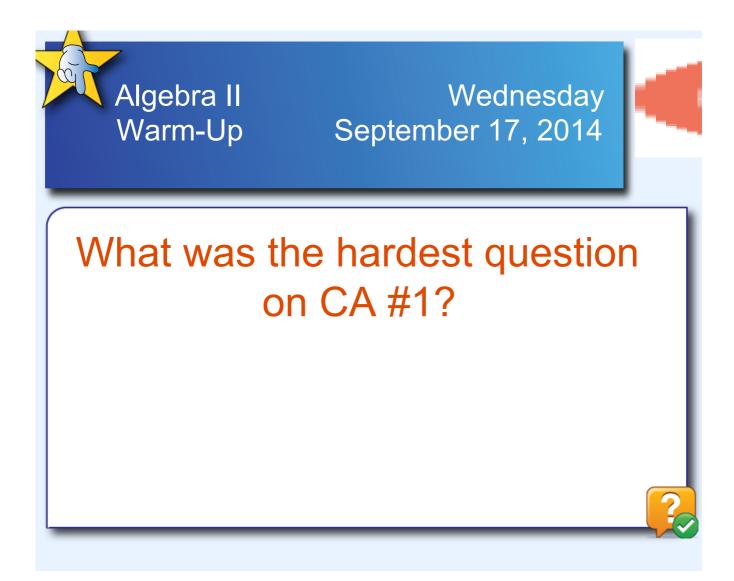
Tuesday September 16, 2014

# Review your notes and classwork and get ready for the exam.









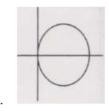
Name\_\_\_\_\_\_Date\_\_\_\_\_Pd\_\_\_\_

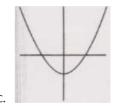
Algebra II CA #1

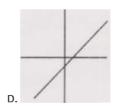
also complete pgs. 23 and 24 in workbook

- 1. Complete Pgs. 23 and 24 in workbook
- 2. Which below is not a function?

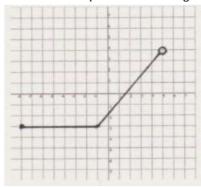








3. Describe the slope of the following finction



4. What is a FUNCTION?

If f(x) = 2x + 7 evaluate the following:

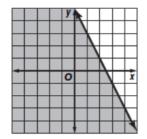
5. f(0)

6. f(-1)

7. f(11)

## Part II - Practice Questions

1. Which inequality best describes the graph shown below?



$$A. \ y \le 5 - 2x$$

B. 
$$y \ge 5 - 2x$$

$$C.\ y \le 2 - 5x$$

$$D.\ y \ge 5-2x$$

2. Jerome received a gift card for \$20 worth of video rentals from a video store. If the cost of renting a video is \$2.50, which table best describes b, the balance remaining on the gift card after he rents n videos?

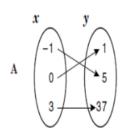
Α	n	b
	0	\$20.00
	1	\$17.50
	2	\$15.00
	4	\$10.00
	6	\$5.00

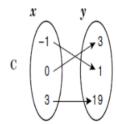
С	n	b
	1	\$17.50
	2	\$15.00
	3	\$13.50
	4	\$11.00
	5	\$8.50

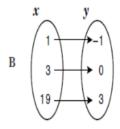
В	n	b
	0	\$20.00
	2	\$17.50
	4	\$15.00
	6	\$12.50
	8	\$10.00

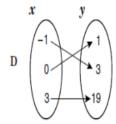
D	n	b
	0	\$20.00
	1	\$15.00
	4	\$10.00
	6	\$2.50
	8	\$0.00

3. Which mapping best represents the function  $y = 2x^2 + 1$ 









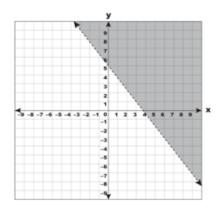
4. Which inequality best describes the graph shown below?

A. 
$$y > -\frac{3}{4}x + 5$$

B. 
$$y < -\frac{4}{3}x + 5$$

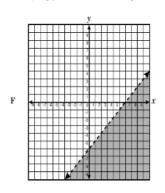
C. 
$$y < -\frac{3}{4}x + 5$$

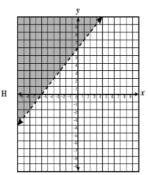
**D.** 
$$y > -\frac{4}{3}x + 5$$

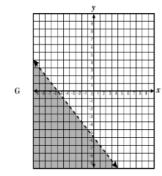


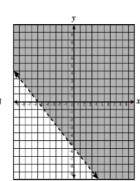
## Reporting Category 1

5. Which graph best represents all the pairs of numbers (x, y) such that x + y < -6?

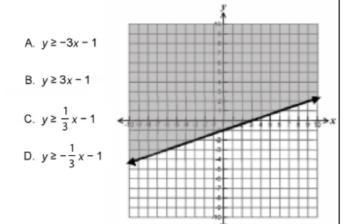




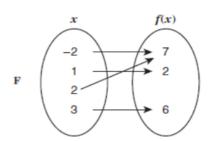


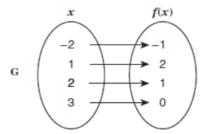


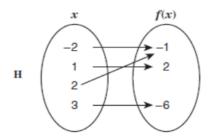
6. Which inequality best describes the graph shown below?

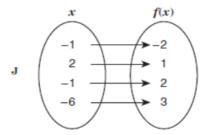


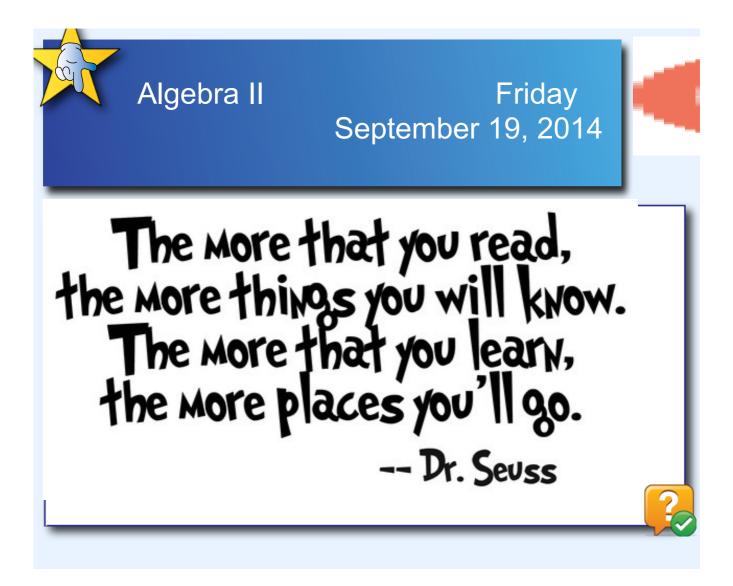
7. Which of the following mappings best represents the function  $f(x) = -x^2 + 3$ 









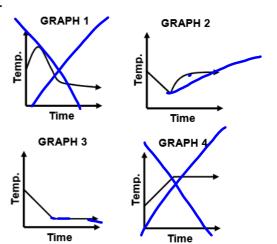




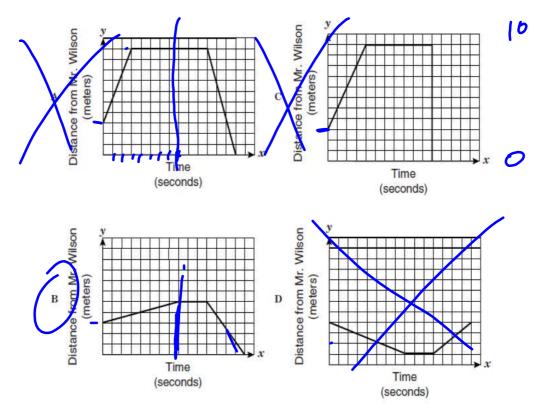
# Friday September 19, 2014

### Match each description to its most appropriate graph.

1. 4	In January you enter a cold house and turn up the thermostat to 68°.
2	You put a cup of water in the microwave and heat it for one minute.
3	You put ice cubes in your fruit punch and then drink it slowly.
4	In August you enter a hot house and turn on the air conditioner.



5. Mr. Wilson asked his class to sketch a graph that would present the following activity: "Start 3 meters away from me and slowly walk away for 8 seconds. Then stand for 3 seconds and walk quickly toward me for 3 seconds." Which graph represents this activity?



Reporting Category2

A.2A

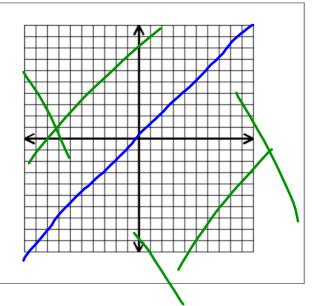
General Forms of Linear and Quadratic Functions

Part I

## LINEAR PARENT FUNCTION f(x) = x



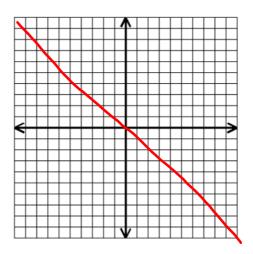
Х	f(x) = x	у
-3		-3
-2		-5
-1	V	-1
0	$\Lambda$	Ö
1		L
2		5
3		13

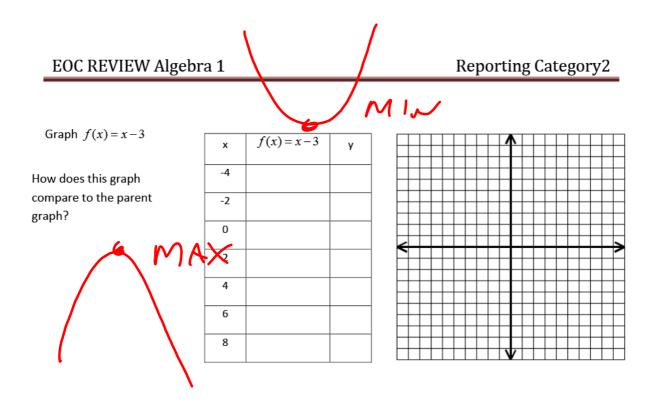


Graph 
$$f(x) = -x$$

How does this graph compare to the parent graph?

х	f(x) = -x	у
-3		3
-2		Ś
-1		
0		0
1		1
2	•	-5
3		-3

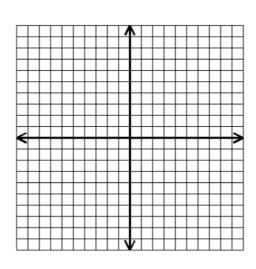


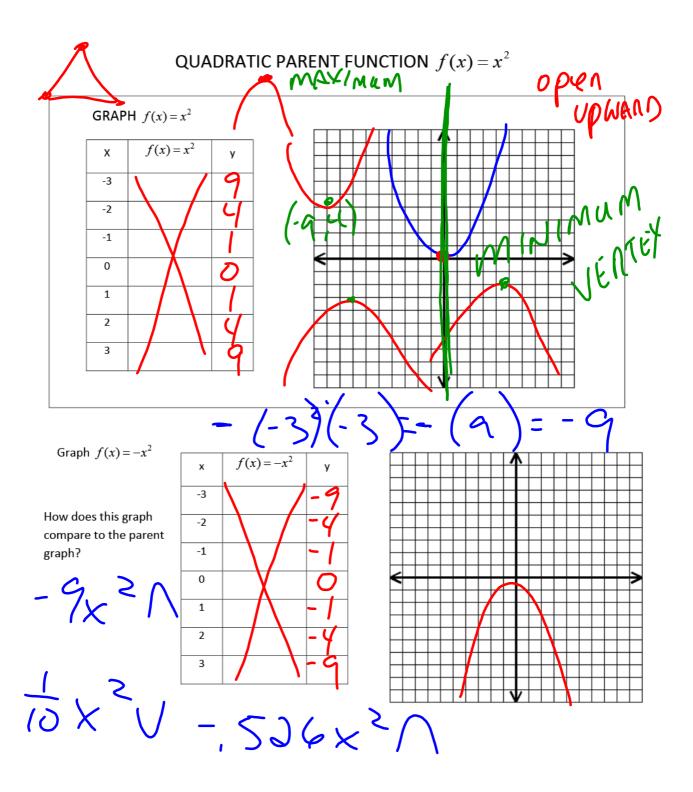


Graph 
$$f(x) = \frac{1}{2}x + 2$$

How does this graph compare to the parent graph?

$f(x) = \frac{1}{2}x + 2$	У
	$f(x) = \frac{1}{2}x + 2$



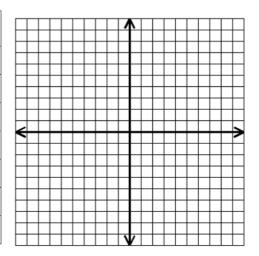


## Reporting Category2

Graph 
$$f(x) = (x-3)^2$$

How does this graph compare to the parent graph?

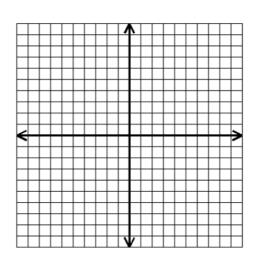
х	$f(x) = (x-3)^2$	У
0		
1		
2		
3		
4		
5		
6		



Graph 
$$f(x) = x^2 + 2$$

How does this graph compare to the parent graph?

х	$f(x) = x^2 + 2$	У
-2		
-1		
0		
1		
2		



- 1. Which of these are characteristics of the parent function of a quadratic equation?
- I. The parent function of a quadratic equation has the vertex at (0,0).
- / II. The parent function of a quadratic equation opens upward.
- III. The parent function of a quadratic equation has the y-axis as its line of symmetry.

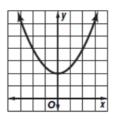
A. I and II only

B/I and III only

C/II and III only

D. I, II, and III

2. Which equation is the parent function of the graph represented below?



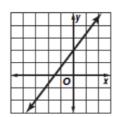
A. 
$$y = \sqrt{x}$$

$$B$$
  $y = x^2$ 

C. 
$$y = x$$

D. y = |x|

3. Which equation is the parent function of the graph represented below?

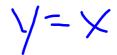


A. 
$$y = x^2$$

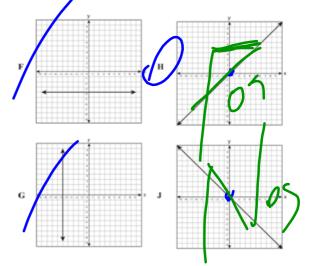
B. 
$$y = x$$

C. 
$$y = |x|$$

D. 
$$y = \sqrt{x}$$

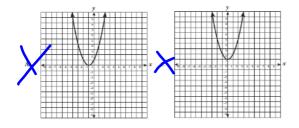


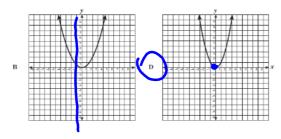
4. Which graph best represents the linear parent function?



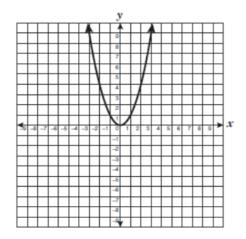
## Reporting Category2

5. Which graph best represents the quadratic parent function?



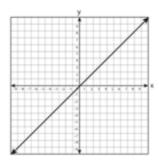


6. Which type of parent function is represented by the function graphed below?



- A. Exponential
- B. Quadratic
- C. Linear
- D. Absolute Value

7. Which type of parent function is represented by the function graphed below?



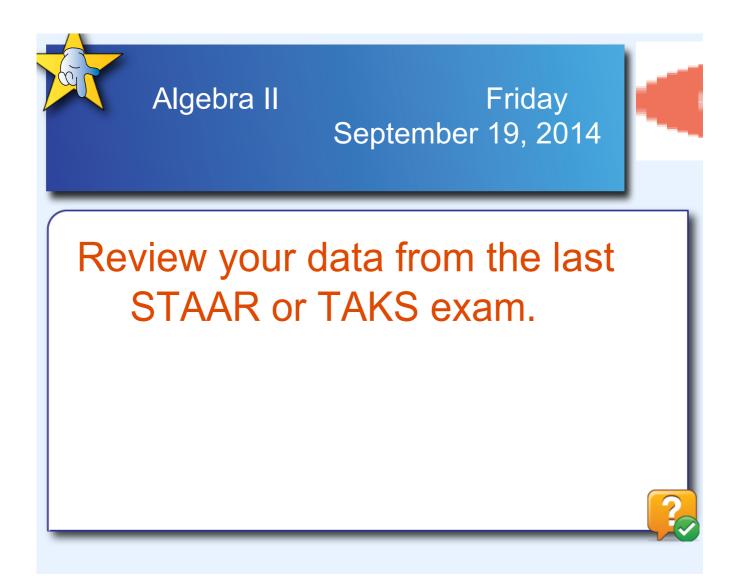
- A. Quadratic
- B. Absolute Value
- C. Exponential
- D. Linear

8. Which of the following represents the parent function of  $y = x^2 - 2x - 15$ ?

- $\mathbf{A} \quad y = x$
- B  $y = x^2 15$
- $C \quad v = r^2$
- $D \quad y = -2x$

9. Which equation is the parent function of a linear equation?

- A. y = x
- B.  $y = \sqrt{x}$
- C. y = |x|
- D.  $y = x^2$





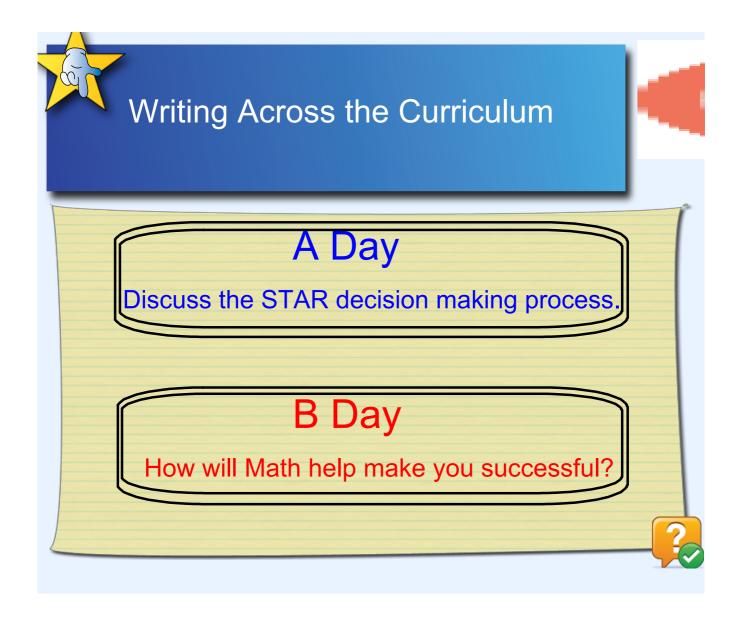
Algebra II

Friday September 19, 2014



**TAKS students** will work on TAKS handouts.





## **STAR**

S = STOP I STOP to give myself time to think before I choose an action or behavior.

**T = THINK** I **THINK** to become aware of my choices or alternatives.

A = ACT | I ACT responsibly by considering the alternatives and consequences of my actions.

**R = REVIEW** I **REVIEW** my actions to evaluate if they got me closer or further from my goals.

# 12 STEPS TO SUCCESS

- 1. BE CONFIDENT
- 2. BE RESPONSIBLE
- 3. BE HERE
- 4. BE ON TIME
- 5. BE FRIENDLY
- 6. BE POLITE

- 7. BE PREPARED
- 8. BE LISTENER
- 9. BE A DOER
- 10. BE A TOUGH WORKER
- 11. BE A RISK TAKER
- 12. BE A GOAL SETTER