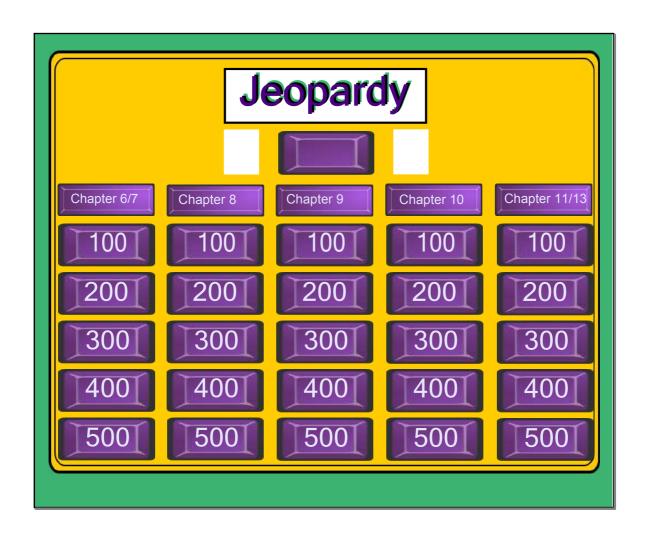
Do Now:

- Take out HW and begin to check with an answer key.
 You will NOT be handing in this homework.
 - 2) Circle any you have a question on.
 - 3) Have scrap graph paper and a pencil ready to go.



Chapters 6/7 - 100

True or False: The ordered pair (-2,1) is a solution to the following system of linear equations:

6x+5y=-7

$$6x+5y=-7$$

x-2y=0

False

Jeopardy Board

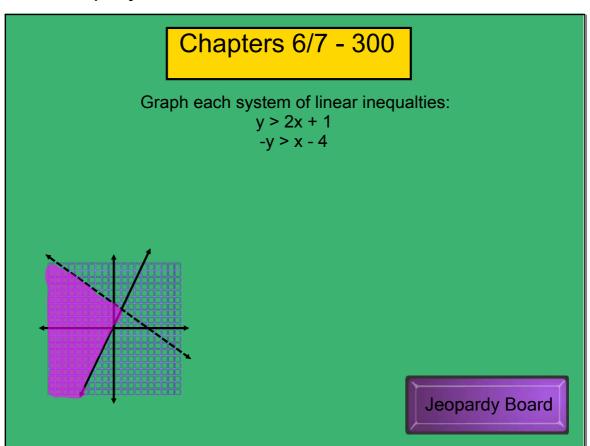
Chapters 6/7 - 200

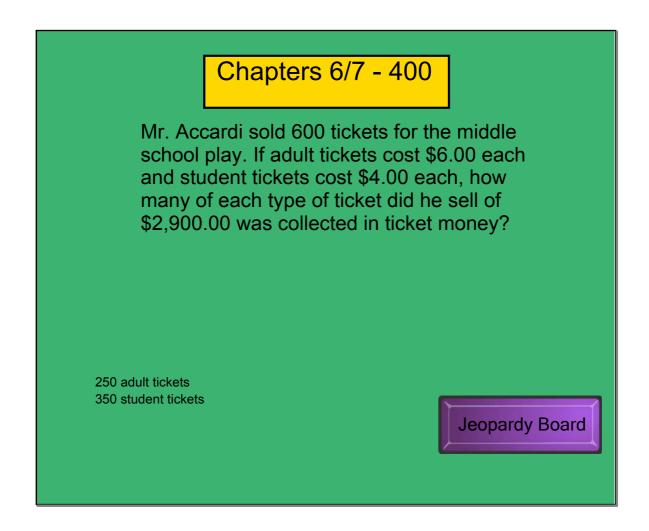
Solve the following system using any method:

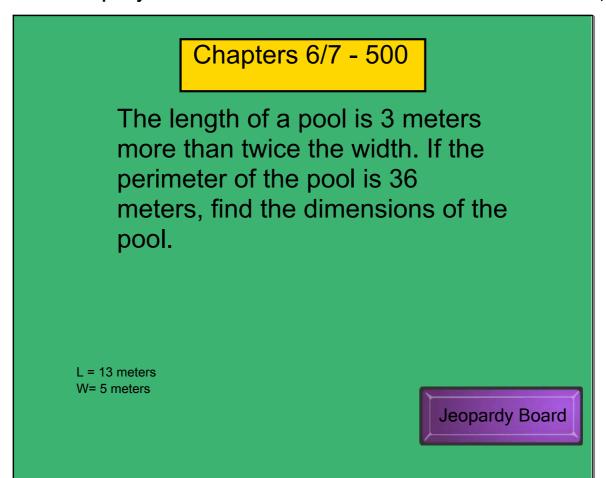
$$5x + 2y = -31$$

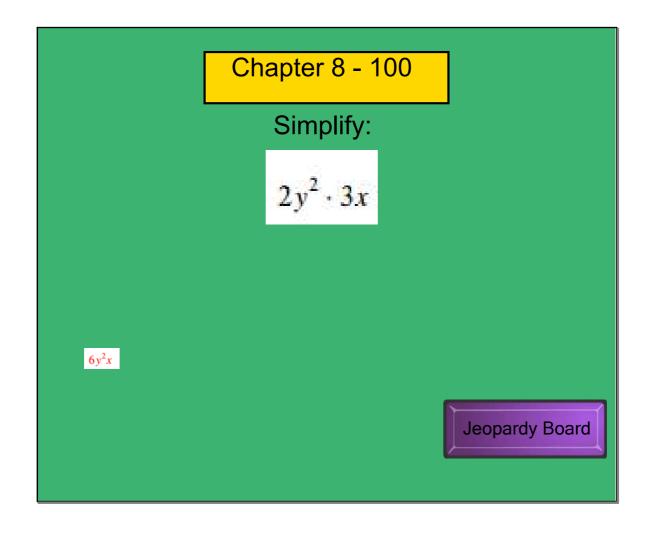
$$3x + 2y = -49$$

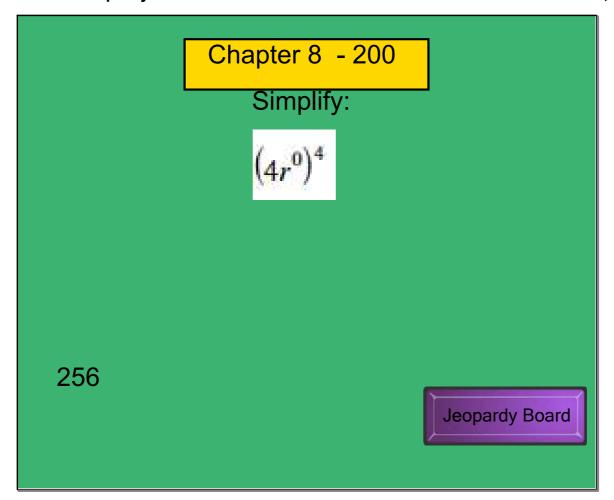
(-9, -2)

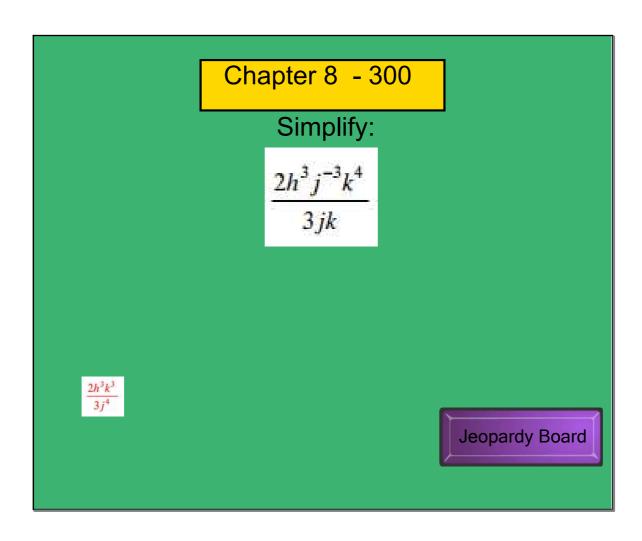












Chapter 8 - 400

Given the table, write a rule and determine if it is exponential growth or decay

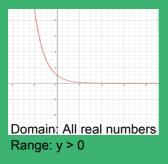
Х	-2	-1	0	1	2
у	64	16	4	1	1/4

Exponential Decay $y = 4(1/4)^x$

Jeopardy Board

Chapter 8 - 500

Graph the function y = (1/3)x and identify its domain and range. *Hint: Make a table of values when graphing*



Chapter 9 - 100

Is 2/5 xy³ + 3y a polynomial? If so, what is the degree?

Yes, 4th degree binomial

Jeopardy Board

Chapter 9 - 200

Find the sum:

 $(m^2 - 7) - (2m^2 + 6m - 9)$

-m² - 6m + 2



Find the product of both: $3x(3x^2 - 5x - 1)$

$$(2x - 1)(4x + 7)$$

 $9x^3 - 15x^2 - 3x$

 $8x^2 + 10x - 7$

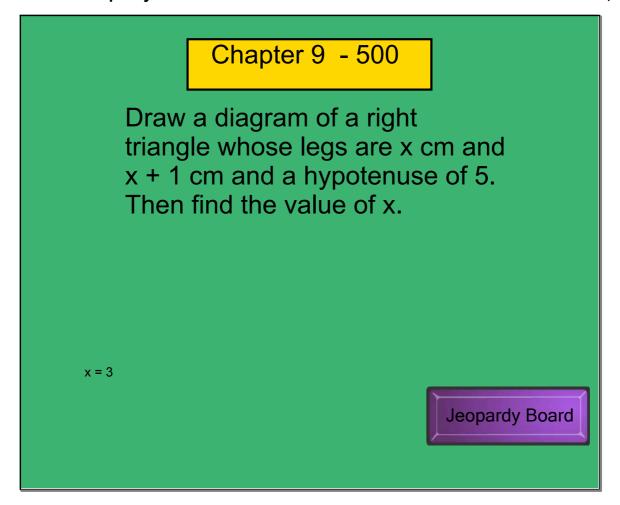
Jeopardy Board

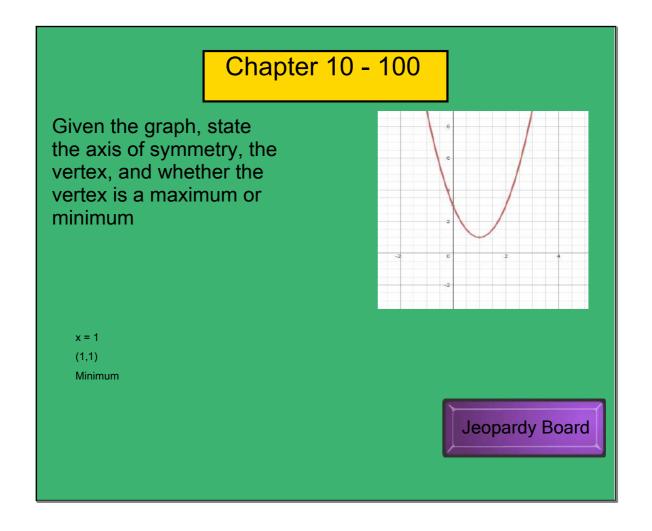
Chapter 9 - 400

Factor the following expressions:

$$10a^2 + a - 2$$

(2a + 1)(5a - 2)(2y - 3)(2y + 3)

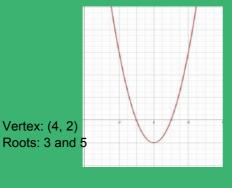






Solve the following equation by graphing. Then identify the vertex and the roots.

$$0 = 2x^2 - 16x + 30$$



Jeopardy Board

Chapter 10 - 300

Solve each by using square roots:

$$8a^2 + 3 = 203$$

$$5(a-2)^2 = 70$$

$$a = \pm 5$$

$$a = 2 \pm \sqrt{14}$$

Chapter 10 - 400

Find the discriminant of the equation to determine the number of solutions. Then solve using the quadratic formula, if possible.

$$2x^2 - 7 = x$$

2 solutions:

Discriminant is 57.

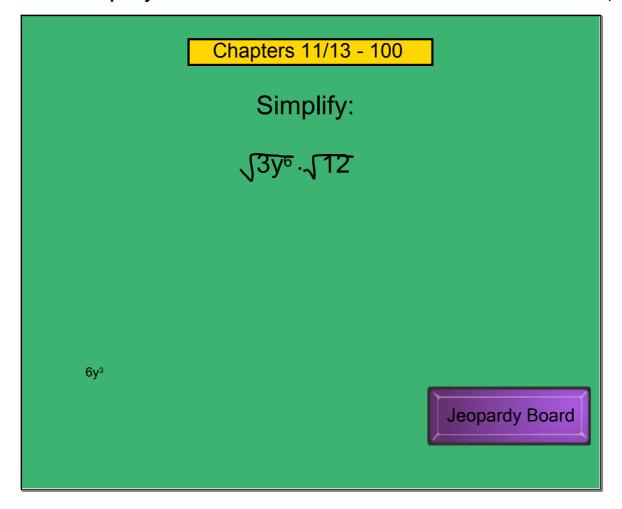
Roots: $1 \pm \sqrt{57}$

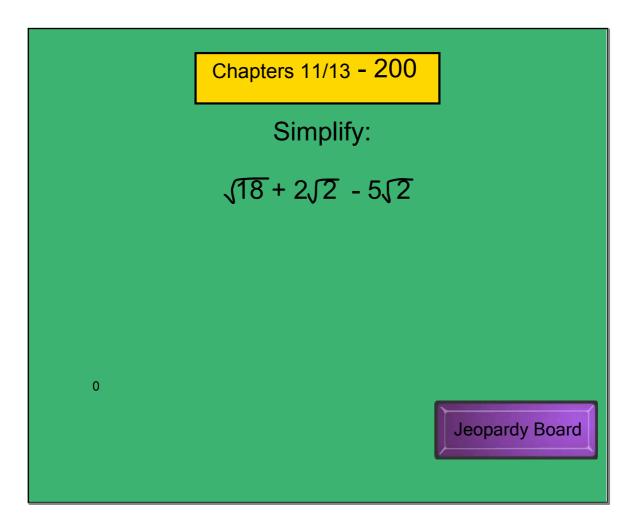
Jeopardy Board

Chapter 10 - 500

While looking off the balcony to Romeo, Juliet's crown fell off her head. The height (h) of her crown can be modeled by the function: $h = -16t^2 + 200$. Find the amount of time in seconds (t) it would take for the crown to hit the ground.

 $\frac{5\sqrt{2}}{2}$ seconds





Chapters 11/13 - 300

Simplify: $(3 + \sqrt{2})^2$ 11+ 6 $\sqrt{2}$ Jeopardy Board

Ms. Tiu surveyed 50 8th graders about their favorite subject. 12 stated their favorite subject was math. If there are 400 students in the 8th grade, predict how many students would say math was their favorite.

96 students

Jeopardy Board

