Name: \_\_\_\_\_

June 2 Kry

<b>CC</b> Algebra	Review	Homework
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Monday	Tuesday	Wednesday	Thursday
Determine if (3,13) is a solution to the system $\begin{cases} y = x + 10 \\ y = 2^x + 5 \end{cases}$ Same as	Write the exponential function that matches the table. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Write the equation if the roots equal -2 and 5 $ \begin{array}{ccc}                                   $	Use the functions $f(x) = x^{2} + 2x + 5$ $g(x) = 5x - 1$ for the following: $f(x) - g(x)$ $(x^{2} + 2x + 5) = (5x - 1)$ $x^{2} + 2x + 5$ $-5x + 1$
A graphing utility was used to produce a table of values for functions $y_1$ and $y_2$ . Determine the intersection of these two functions.	Solve the equation for x: m(x + y) = K $mx + my = K$ $mx = k - my$ $X = k - my$	Mrs. Bear asked her class "Is the sum of 5.2 and √2 rational or irrational?" Patrick answered that the sum would be irrational. State whether Patrick is correct or incorrect. Justify your reasoning.  Correct 5.2+√2  can t be writter as a fraction	Write the equation of a line in slope intercept form of a line that has a slope of $-\frac{4}{3}$ and contains (3, -6). $y = m \times + b$ $-b = \frac{4}{3}(3) + b$ $-(3) + b$
A theater has 35 seats in the first row. Each row has four more seats than the row before it. Which expression represents the number of seats in the $n$ th row?  1) $35 + (n+4)$ 2) $35 + (4n)$ 3) $35 + (n+1)(4)$ 4) $35 + (n-1)(4)$	Connor wants to attend the town carnival. The price of admission to the carnival is \$4.50, and each ride costs an additional 79 cents. If he can spend at most \$16.00 at the carnival, write an inequality that can be used to solve for $r$ , the number of rides Connor can go on $79r + 4.50 \le 16$	Tanisha and Rachel had lunch at the mall. Tanisha ordered three slices of pizza and two colas. Rachel ordered two slices of pizza and three colas. Tanisha's bill was \$6.00, and Rachel's bill was \$5.25. Write two equations  3P+2C=6 2P+3C=5.25	Identify the vertex:  Minimum or maximum?  Estimate the zeros:  X=1,3  Identify the y-int:



The width of a rectangle is 3 less than twice the length, x. If the area of the rectangle is 43 square feet, write an equation that can be used to find the length, in feet?

$$L=x$$
  
 $W=2x-3$   
 $X(2x-3)=43$ 

Use the quadratic formula to solve

$$2x^{2} - x + 3 = 0$$

$$x = \frac{1}{2} (-1)^{2} A(2)(3)$$

$$x = \frac{1}{2} \sqrt{-23}$$

$$x = \frac{1}{2} \sqrt{-23}$$

Using the equations to the above: What was the price of one slice of pizza? What was the price of one cola?

$$2(3P+2(-6))$$

$$-3(2P+3(-5.25))$$

$$-3(2P+3(-5.25))$$

$$-3(2P+3(-5.25))$$

$$-6P-9(-5.75)$$

$$-5(-3.75)$$

$$-5(-3.75)$$

$$2P+2(-75)=6$$

$$2P+1.5=6$$

$$2P+1.5=6$$

$$2P+1.5=6$$

$$2P=4.50$$

The current population of a town is 10,000. If the population, *P*, increases by 20% each year, write an equation that could be used to find the population after *t* years?

The equation

 $A = 1300(1.02)^7$  is being used to calculate the amount of money in a savings account. What does 1.02 represent in this equation?

- 1) 0.02% decay
- 2) 0.02% growth
- 3) 2% decay
- 4) 2% growth

The current student population of the Brentwood Student Center is 2,000. The enrollment at the center increases at a rate of 4% each year. To the *nearest whole number*, what will the student population be closest to in 3 years'?

2250

Is the equation  $A = 21000(1 - 0.12)^t$  a model of exponential growth or exponential decay, and what is the rate (percent) of change per time period?

decay

My Progress

MONDAY	TUESDAY	MEDNE2DAY	IHURSDAY
# of questions	# of questions	# of questions	# of questions
# correct	# correct	# correct	# correct
I need more help			
with	with	with	with
			-
		3	