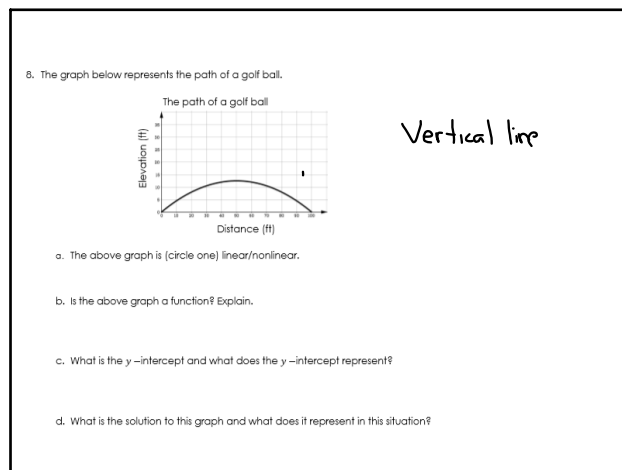
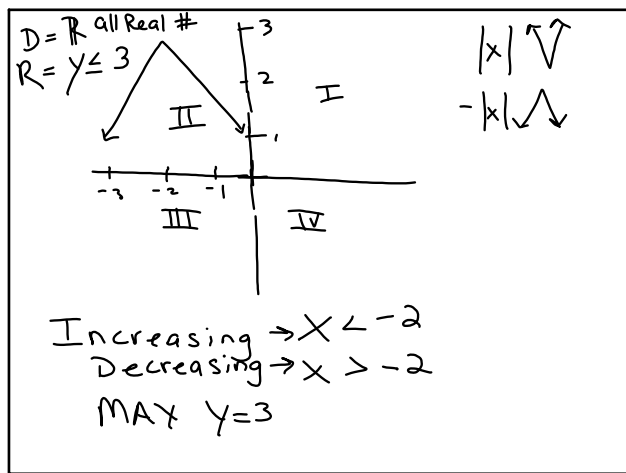


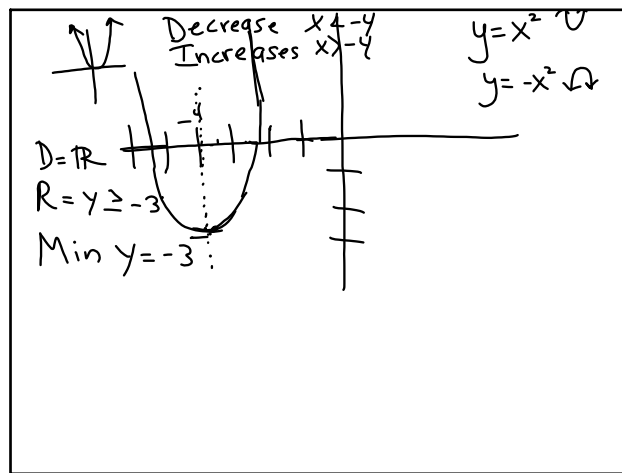
Nov 21-11:23 AM



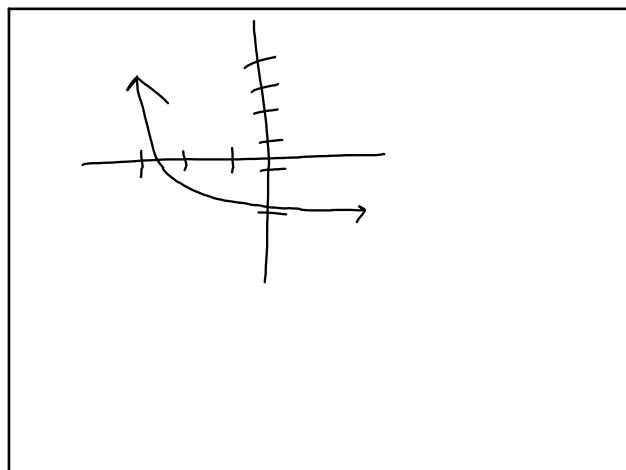
Nov 21-11:24 AM



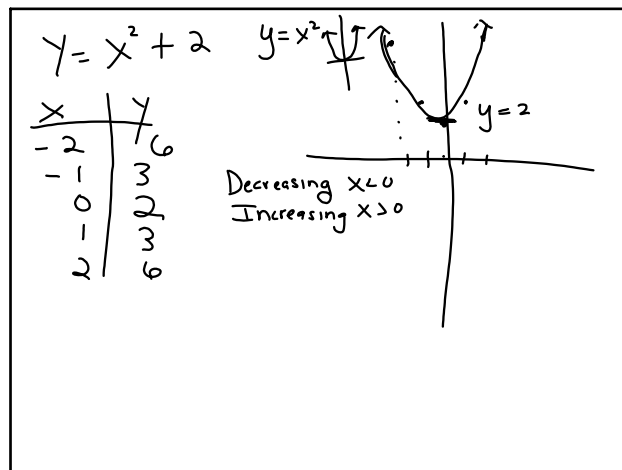
Nov 21-11:48 AM



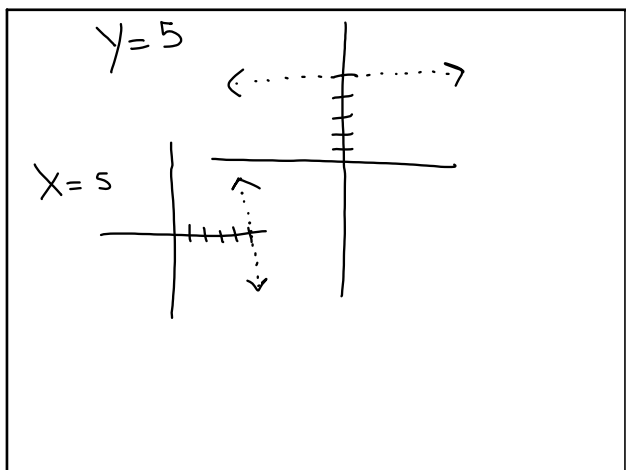
Nov 21-11:54 AM



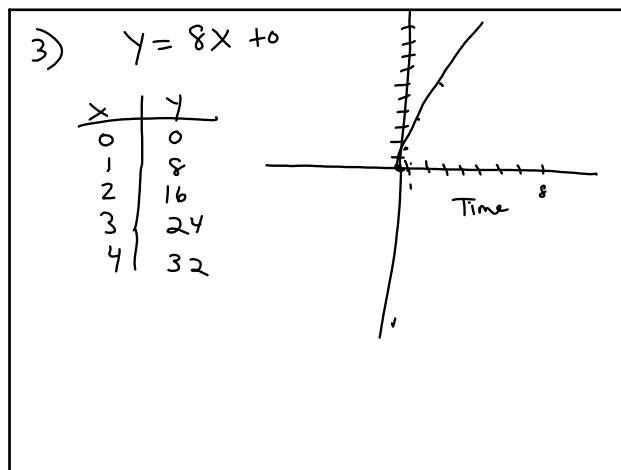
Nov 21-12:00 PM



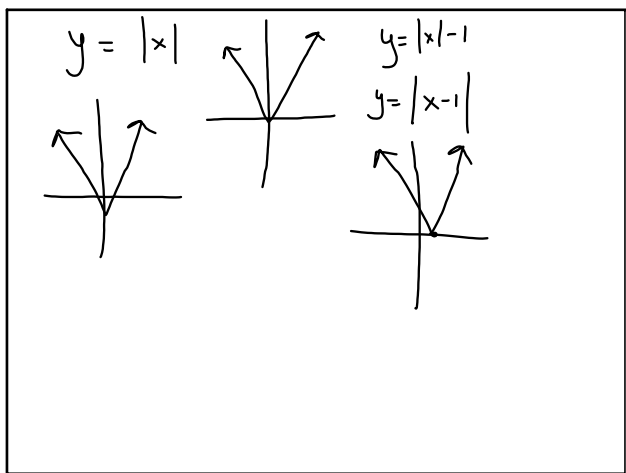
Nov 21-12:02 PM



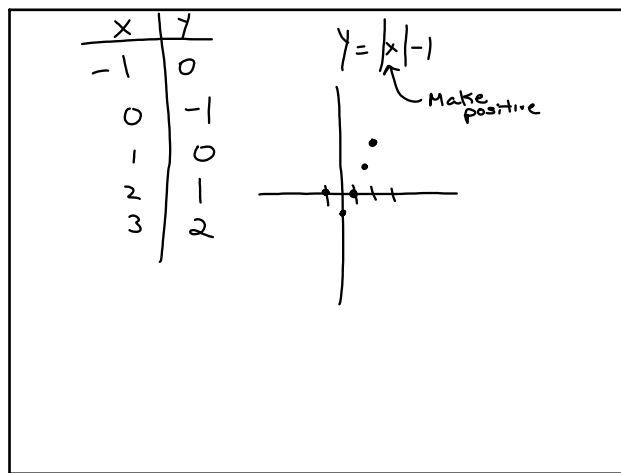
Nov 21-12:08 PM



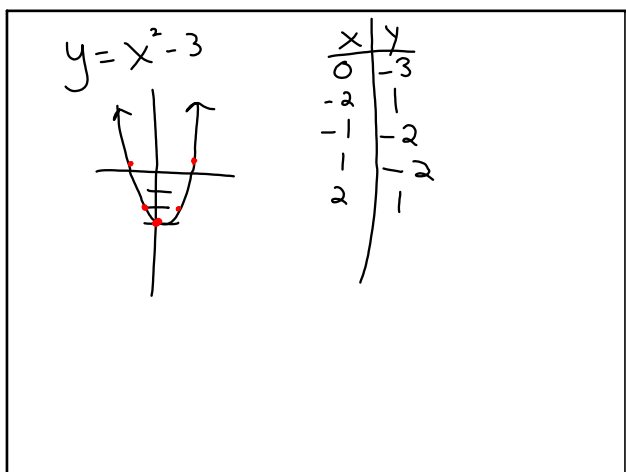
Nov 21-12:09 PM



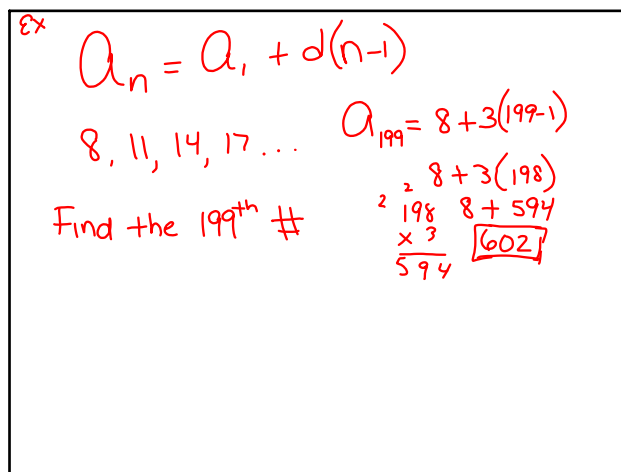
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6.  $100, 98, 96, 94$   
 $\begin{array}{cccc} & -2 & -2 & -2 \end{array}$   
 $a_{99} = 100 + (-2)(99-1)$   
 $a_n = a_1 + d(n-1)$   
 $a_{99} = 100 - 2(98)$   
 $\begin{array}{r} 100 \\ - 196 \\ \hline -96 \end{array}$

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$4, 7, 10, 13$   
 $\begin{array}{ccc} & 3 & 3 & 3 \end{array}$   
 $a_{24} = ?$   
 $a_n = a_1 + d(n-1)$   
 $a_{24} = 4 + 3(23)$   
 $\begin{array}{r} 4 \\ + 69 \\ \hline 73 \end{array}$

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7)  
 $10 + 6(41)$   
 $10 + 246$   
 $a_{42} = \textcircled{256}$

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8)  $a_{27} = 59 - 3(26)$   
 $59 - 78$   
 $\begin{array}{r} 26 \\ \times 3 \\ \hline 78 \end{array}$   $\textcircled{-19}$

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\$30 1<sup>st</sup> Month  $30 + 20(11)$   
 20 per month  $30 + 220$   
 $\textcircled{250}$   
 $\begin{array}{cccc} 1^{\text{st}} & 2^{\text{nd}} & 3^{\text{rd}} & 4^{\text{th}} \\ 30 & 50 & 70 & 90 \end{array}$   
 $\begin{array}{r} 30 \\ + 20 \\ \hline 50 \end{array}$   
 $\begin{array}{r} 50 \\ + 20 \\ \hline 70 \end{array}$   
 $\begin{array}{r} 70 \\ + 20 \\ \hline 90 \end{array}$   
 $\begin{array}{r} 90 \\ + 20 \\ \hline 110 \end{array}$   
 $\begin{array}{r} 110 \\ + 20 \\ \hline 130 \end{array}$   
 $\begin{array}{r} 130 \\ + 20 \\ \hline 150 \end{array}$   
 $\begin{array}{r} 150 \\ + 20 \\ \hline 170 \end{array}$   
 $\begin{array}{r} 170 \\ + 20 \\ \hline 190 \end{array}$   
 $\begin{array}{r} 190 \\ + 20 \\ \hline 210 \end{array}$   
 $\begin{array}{r} 210 \\ + 20 \\ \hline 230 \end{array}$   
 $\begin{array}{r} 230 \\ + 20 \\ \hline 250 \end{array}$

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7)  $-3 + 2.8(36)$   
Pemdas  
 $\begin{array}{r} 4 \\ 36 \\ \times 2.8 \\ \hline 288 \\ 720 \\ \hline 100.8 \end{array}$   
 $-3 + 100.8$   
 $\textcircled{97.8}$

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⑪  $a_n = a_1 + d(n-1)$

$a_1 = 4.95$        $4.95 + 18.95(11)$   
 $d = 18.95$        $4.95 + 208.45$   
 $a_n = 12$        $\boxed{213.40}$

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$(p-2)(p^3-4p^2-2)$

$\cancel{p^4} - 4p^3 - 2p - 2p^3 + 8p^2 + 4$

$\boxed{p^4 - 6p^3 + 8p^2 - 2p + 4}$

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$(-3x+2)(2x^2-5x-1)$

$\cancel{-6x^3} + 15x^2 + 3x + 4x^2 - 10x - 2$

$-6x^3 + 19x^2 - 7x - 2$

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$15x-1$

$5x-7$   $\boxed{7x-1}$   $x+3$

Field:  $(15x-1)(5x-7)$   
 $75x^2 - 105x - 5x + 7$   
 $75x^2 - 110x + 7$

Penalty:  $(x+3)(7x-1)$   
 $7x^2 - x + 21x - 3$   
 $7x^2 + 20x - 3$

$75x^2 - 110x + 7 - (7x^2 + 20x - 3)$   
 $75x^2 - 110x + 7 - 7x^2 - 20x + 3$

$\boxed{68x^2 - 130x + 10}$

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12)  $5 \overset{1st}{\underset{2}{\cup}} 7 \overset{9}{\underset{2}{\cup}} 11$        $a_n = a_1 + d(n-1)$

$a_{11} = 5 + 2(10)$   
 $\boxed{25}$

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Introduction to Functions  
 Real World Combinations and Compositions of Functions  
 Independent Practice

1. The student government association is selling roses for Valentine's Day to raise money for their trip to the state convention. The cost of each rose is \$1.50 and the florist charges a delivery fee of \$25. The class plans to sell the roses for \$5.00 each.

- Define the variable.
- Write a cost function.
- Write a revenue function.
- Write a profit function.

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**Closure Property**  
**Independent Practice**

1. For the following exercises determine if the closure property applies to the following statements by circling 'True' or 'False'. Then provide an example of each statement.

Statement A	Answer Choice	
Polynomials are closed under addition.	True	False
Example:		
Statement B	Answer Choice	
Polynomials are closed under subtraction.	True	False
Example:		
Statement C	Answer Choice	
Polynomials are closed under multiplication.	True	False
Example:		
Statement D	Answer Choice	
Polynomials are closed under division.	True	False
Example:		

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2. Check the boxes for the following sets that are closed under the given operations.

Set	+	-	x	÷
{-7, -6, -5, -4, -3}	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
{0, √1, √4, √9, √16, √25, ...}	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
{-10, -5, -2, -1, 0, 1, 2, 5, 10, ...}	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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3. Consider the following polynomials.

$$ab^2 + 3ab + 8a^2$$
$$-5ab^2$$

Use the two polynomials to illustrate the following:

- a. Polynomials are closed under addition.
- b. Polynomials are closed under subtraction
- c. Polynomials are closed under multiplication.
- d. Polynomials are not closed under division.

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