Starter #7

Calendar Math

Homework Questions

3.3 Objective: Find where the graph was increasing and decreasing

3.4 Objective: Find where the graph is positive and Negative
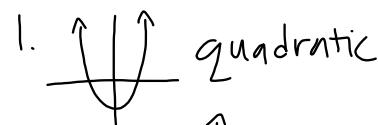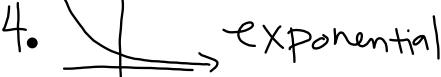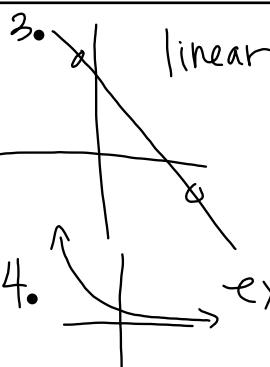
Oct 19-4:01 PM

Calendar Math

1. quadratic

2. exponential

Oct 19-4:11 PM

---

3. linear

4. exponential

Oct 24-7:41 AM

---

linear

X	f(x)	
5	1	>6
6	7	
7	13	>6
8	19	>6

Oct 24-7:42 AM

---

quadratic

X	f(x)		
2	8	>10	>4
3	18	>14	
4	32		>4
5	50	>18	

Oct 24-7:43 AM

---

quadratic

X	f(X)		
1	-3	>-9	>-6
2	-12		
3	-27	>-15	>-6
4	-48	>-21	
5	-75	>-27	>-6

Oct 24-7:48 AM

4. linear

Oct 24-7:50 AM

Homework Questions

(19) $3x + 7y = 21$
$-3x \qquad\qquad -3x$

$X: (7,0)$
$y: (0,3)$

$\dfrac{7y}{7} = \dfrac{21-3x}{7} \qquad y = \dfrac{21-3x}{7}$

$y = \dfrac{21}{7} - \dfrac{3}{7}x$

$y = 3 - 3/7 x$

Oct 19-4:18 PM

---

(13) $f(x) = \begin{cases} |x-1| + 2 & \text{if } x \le 1 \\ 2x-1 & \text{if } x > 1 \end{cases}$

$I: (1, \infty)$
$D: (-\infty, 1]$
$C:$ none

Oct 24-7:59 AM

---

(10) $f(x) = \sqrt[3]{x+2} \quad -1$

$I: (-\infty, \infty)$
$D:$ none
$C:$ none

Oct 24-8:05 AM

---

(15) $f(x) = \frac{1}{2}x + 3$

$I: (-\infty, \infty)$
$D:$ none
$C:$ none

Oct 24-8:08 AM

3.4 Positive and Negative   (all x-values)

Positive: Where the graph lies above the x-axis

$+ [-4, \infty)$
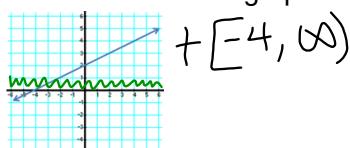
Negative: Where the graph lies below the x-axis

$- [-1, 3]$

Oct 19-4:18 PM

2

$+ (-\infty, -3] \cup [1, \infty)$

$- [-3, 1]$

Oct 24-8:16 AM

$+ (3.26, \infty)$

$- (-\infty, 3.26]$
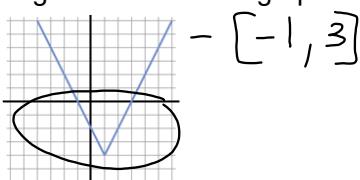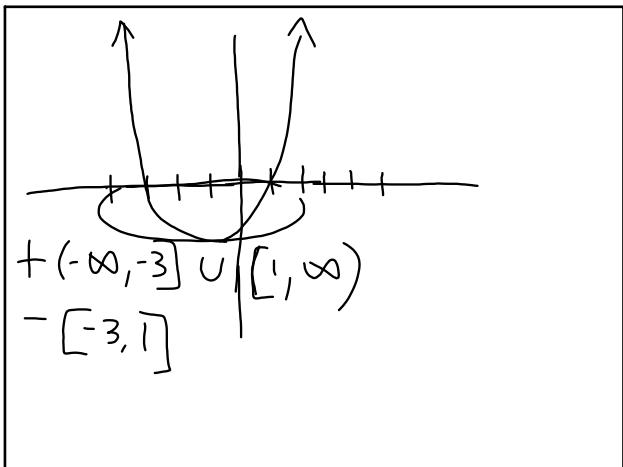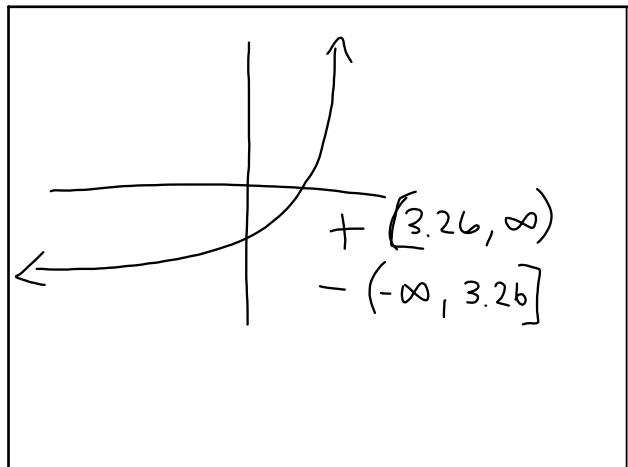
Oct 24-8:23 AM

Examples:

Oct 19-4:21 PM