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

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Calendar Math

linear

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

>6
>6
>6

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quadratic

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

$>10 >4$
>14
$>18 >4$

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quadratic

X	f(x)
1	-3
2	-12
3	-27
4	-48
5	-75

$>9 >6$
>15
$>21 >6$
$>27 >6$

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4. linear

$>$ $\cdot$
$>$ $>$
$>$

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Homework Questions

$f(x) = -3$ if $x < 2$
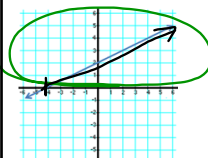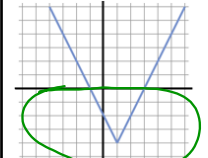$x^2 - 5$ if $x \geq 2$

(14)

1: $[2, \infty)$
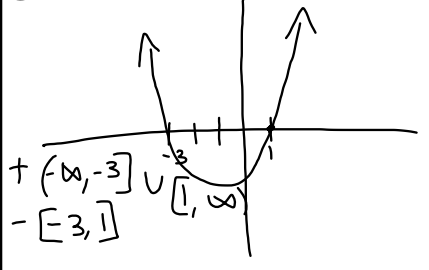b: none
c: $(-\infty, 2)$

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27) $f(x) = -3|x+1|+7$

a h k

$|9|$

$|-3| = 3$

vst

up

left

yes

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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

$[-1, 3]$

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Examples:

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

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

$- [-3, 1]$

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4) $3 \cdot \bullet \cdots$

$+ [3, \infty)$

$- (-\infty, 3]$

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