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Extra Credit Session- College Algebra

Nov. 14, 2019

§2.7

$$h(x) = \begin{cases} 5 & \text{if } x \le -2 \\ -x+3 & \text{if } -2 < x \le 1 \\ 4 & \text{if } x > 1 \end{cases}$$

ineq. GRAPH

ineq. GRAPH

ineq GRAPH

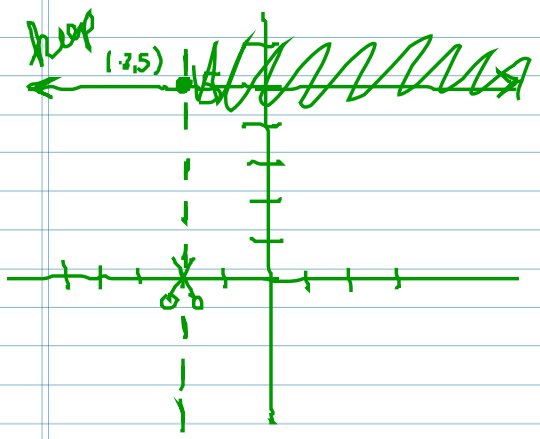
Equality: $=$

Inequality: $< \; > \; \le \; \ge \; \neq$

open dot $< \; > \; \neq$

closed dot $\le \; \ge \; =$

(1) $h(x) = 5$ if $x \le -2$

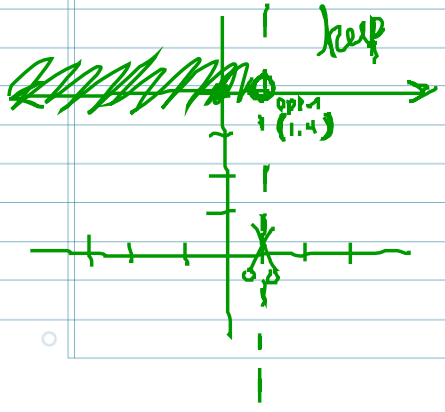


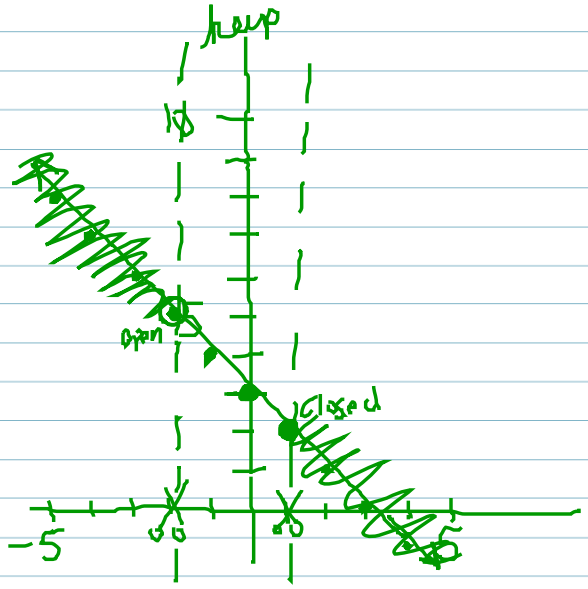
• $h(x) = -x + 3$ if $-2 < x \le 1$

$y = -x + 3$

$y = \frac{-1}{1}x + 3$ (rise / run, y-int)

$h(x) = 4$ if $x > 1$





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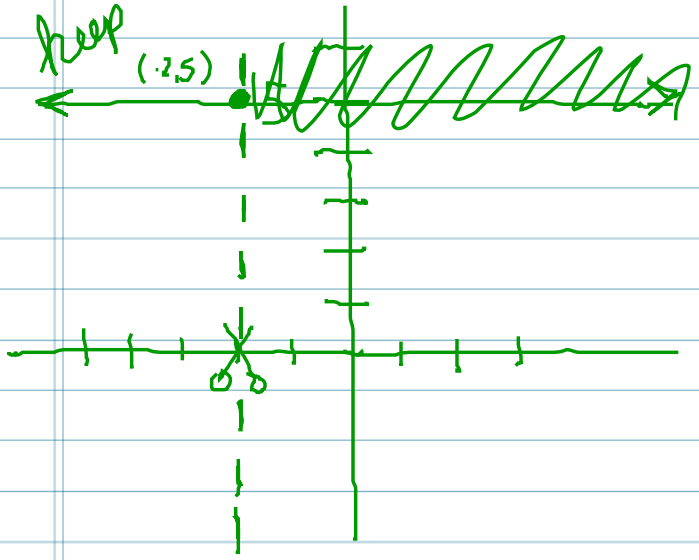

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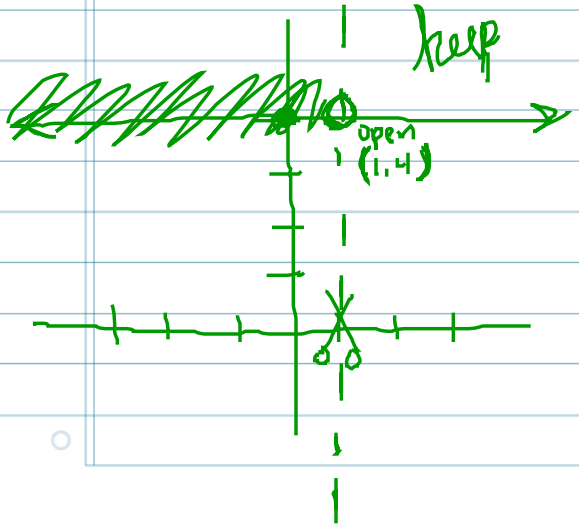
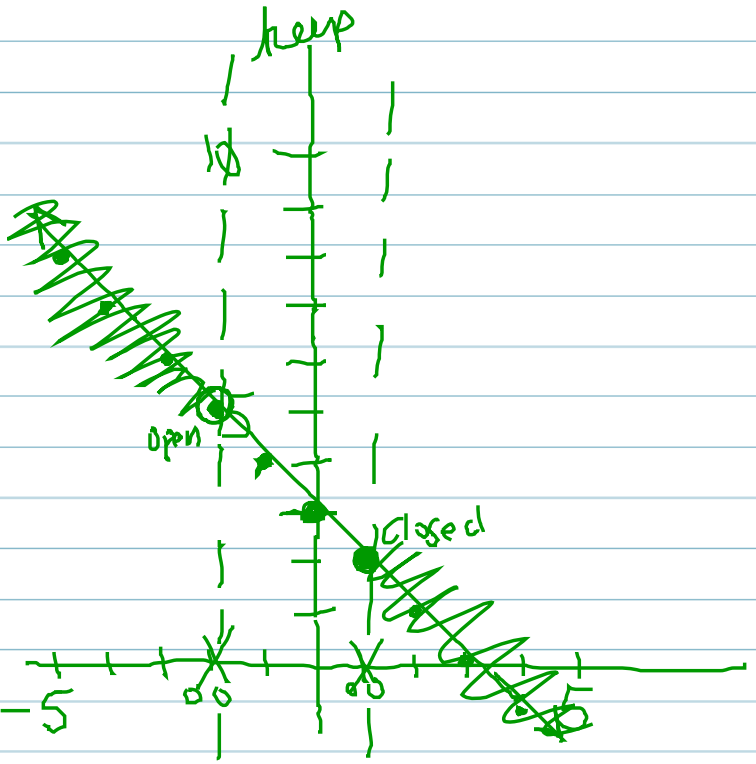
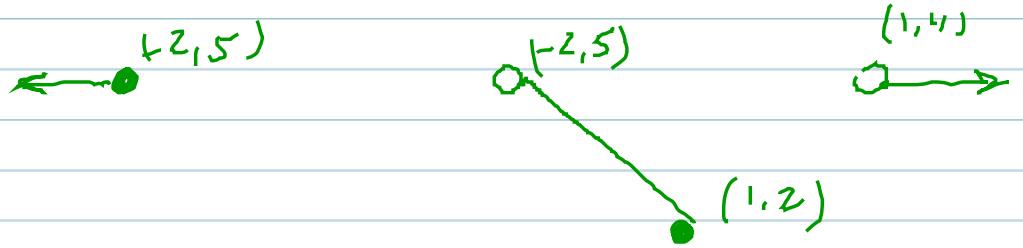
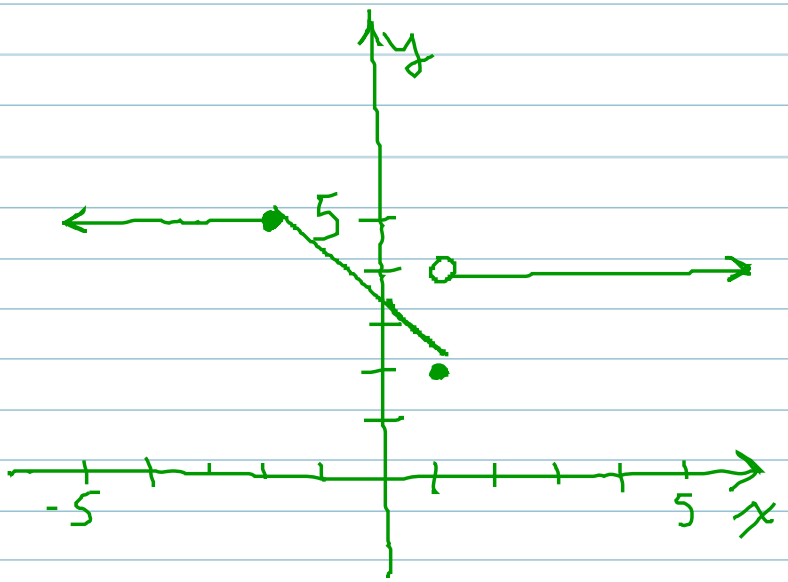






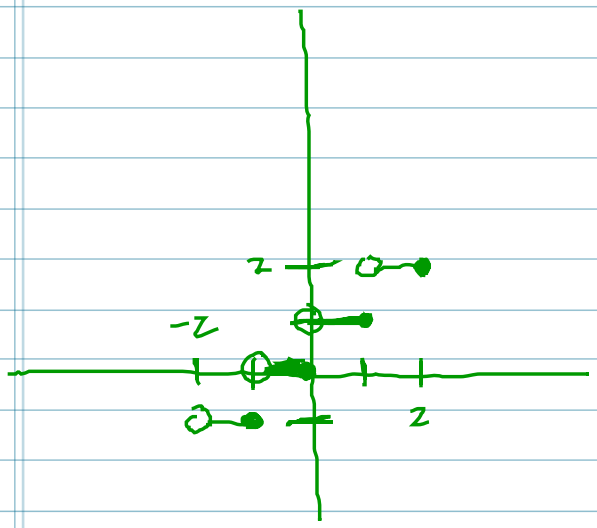


$$g(x) = \begin{cases} -1 & \text{if } -2 < x \leq -1 \\ 0 & \text{if } -1 < x \leq 0 \\ 1 & \text{if } 0 < x \leq 1 \\ 2 & \text{if } 1 < x \leq 2 \end{cases}$$

Show your work here

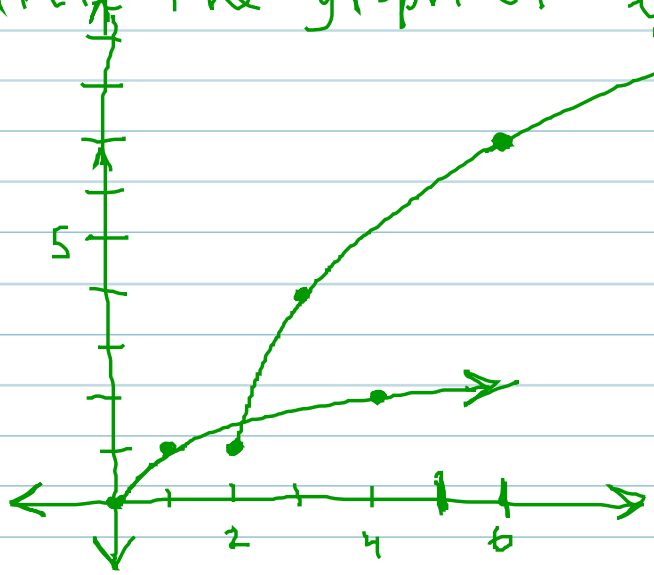
Show your work here

$$g(x) = \begin{cases} -1 & \text{if } -2 < x \leq -1 \\ 0 & -1 < x \leq 0 \\ 1 & 0 < x \leq 1 \\ 2 & 1 < x \leq 2 \end{cases}$$



Given the graph of $y=\sqrt{x}$,

Create the graph of $y=3\sqrt{x-2}+1$



$y=\sqrt{x}$ → $y=3\sqrt{x}$ → $y=3\sqrt{x-2}$ → $y=3\sqrt{x-2}+1$

x	y
0	0
1	1
4	2
9	3

Vertical stretch

x	y
0	0
1	3
4	6
9	9

Shift right 2

x	y
2	0
3	3
6	6
11	9

Shift up 1

x	y
2	1
3	4
6	7
11	10

Mult. y's by 3 | add 2 | add 1

1. horizontal shift
2. reflections
3. stretch/shrink
4. Vertical shift