

pg 370 2, 5, 6, 7, 14-19

2

Not a Solution

5

B

6

Below

7

to the  
Right

14

$(0,0) \rightarrow$  is

$(-6,3) \rightarrow$  Not

15

$(0,0) \rightarrow$  is  
 $(-1,-1) \rightarrow$  is

16

$(0,0) \rightarrow$  Not  
 $(1,2) \rightarrow$  is

17

$(0,0) \rightarrow$  is  
 $(2,0) \rightarrow$  Not

18

$(0,0) \rightarrow$  Not  
 $(8,1) \rightarrow$  Not

19

$(0,0)$   
 $\downarrow$   
Not

$(2,-4)$

$\downarrow$   
Not

\* Side w/ No Graphs

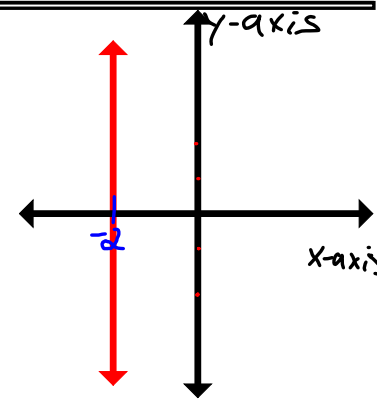
May 22, 2007

b. 8 cont.

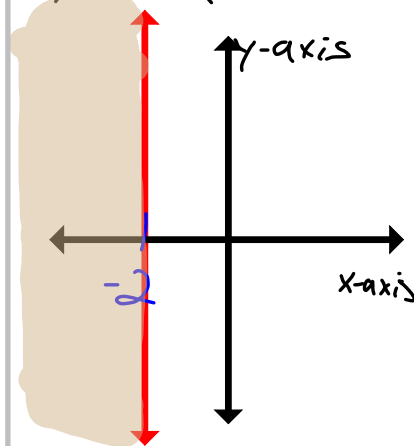
Sketches

Recall  
Linear Graph  $x = 2$

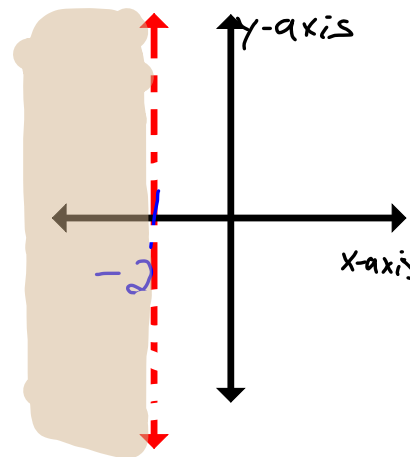
Vertical Line



Sketch  
 $x \leq -2$



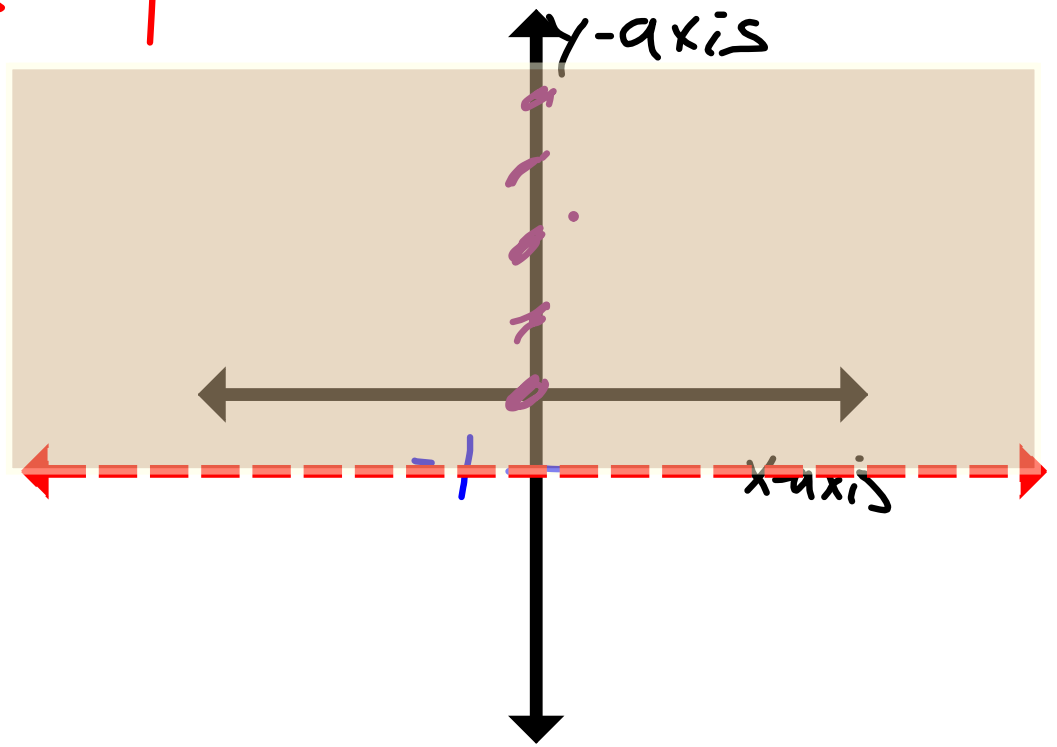
$x < -2$



# Horizontal Linear Inequalities

Sketch:

$$y > -1$$



Graph Side:

Graph:

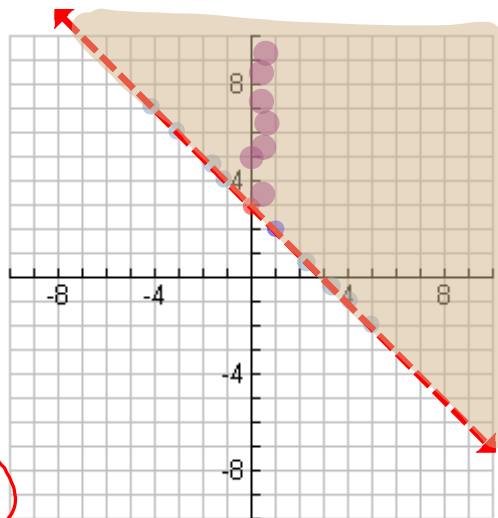
$$x + y > 3$$

$$y > -x + 3$$

$$m = \frac{\text{rise}}{\text{run}} = -1$$

$$\frac{0 \pm 1}{R \pm 1}$$

$$b = 3 \Rightarrow (0, 3)$$



check  $(0, 0)$ :  $(0, 0)$  is NOT shaded +  
therefore should NOT work.

$$\begin{aligned} x + y &> 3 \\ (0) + (0) &? > 3 \\ 0 & \cancel{>} 3 \end{aligned}$$

$(0, 0)$  in fact did  
NOT work.  
We have  
Shaded Correctly

Graph

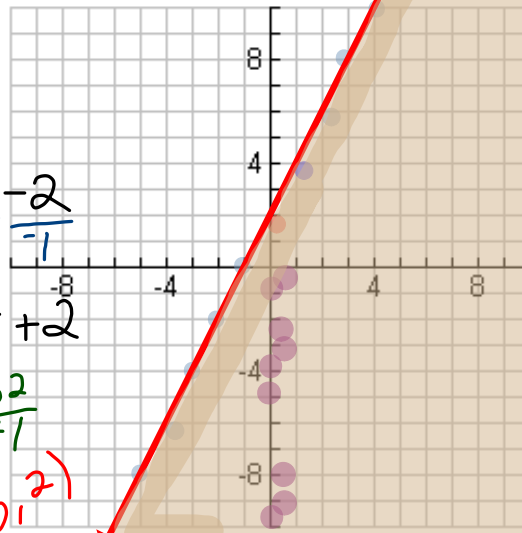
$$2x - y \geq -2$$

$$\frac{-y}{-1} \geq \frac{2x-2}{-1}$$

$$y \leq 2x + 2$$

$$m = \frac{\text{rise}}{\text{run}} = 2 \quad \frac{\text{up } 2}{\text{right } 1}$$

$$b = \text{y.int.} = 2 \Rightarrow (0, 2)$$



Check (0,0) : (0,0) should work

$$2x - y \geq -2$$

$$2(0) - (0) \geq -2$$

$$0 - 0 \geq -2$$

$$0 \geq -2 \quad \checkmark$$

(0,0) Did work...

So we have  
Shaded correctly.

O.T.L.

① pg 370-371:

20-25(a); 27, 29-31(a);

37-49 (o)

Graph!

③ Ch. Test  
Friday