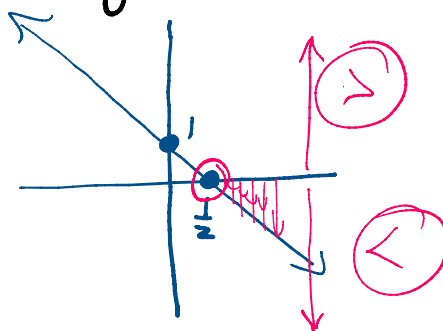


ex. 1 Solve using the graph of  $y = -2x + 1$

$$y = -2x + 1$$

$$y = \underset{\substack{\uparrow \\ \text{slope}}}{m}x + \underset{\substack{\uparrow \\ \text{y-int}}}{b}$$

x-int  $0 = -2x + 1$   
 $2x = 1$   
 $x = \frac{1}{2}$



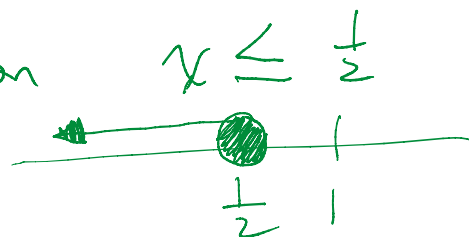
a)  $-2x + 1 < 0$   
 $\uparrow$  below

solution  $x > \frac{1}{2}$



b)  $-2x + 1 \geq 0$   
 $\uparrow$  above and on

solution  $x \leq \frac{1}{2}$



ex 2 Solve graphically and graph the solution on a number line

$$3x + 1 > -5$$

$\quad \quad \quad +5 \quad \quad \quad +5$

$$3x + 6 > 0$$

one side = "0"

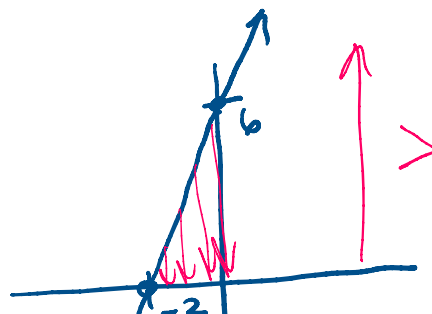
$$y = 3x + 6$$

x-int

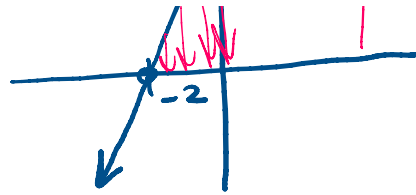
$$0 = 3x + 6$$

$$-6 = 3x$$

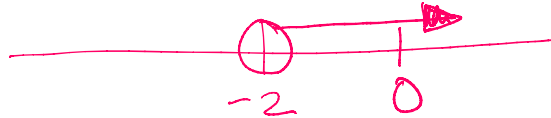
$$\boxed{-2 = x} \text{ critical value}$$



gint  $\boxed{-2 = x}$  critical value  
6



Solution  $x > -2$



p355 # 3, 4, 6-8, 12  $\triangle \rightarrow A = \frac{bh}{2}$