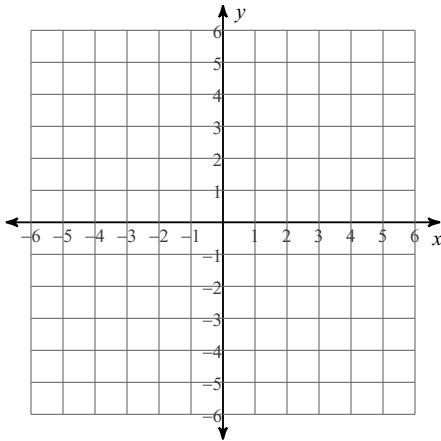


## Inequalities & Absolute Value

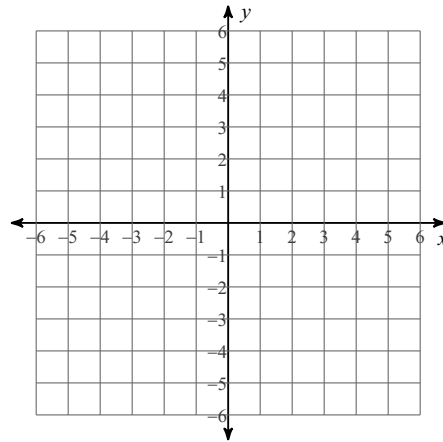
This review is **NOT MANDATORY** and will not be collected. You should use it if you are struggling on the Bonus Assignment #1 (Questions: 33-41)  
**NON-CALCULATOR**

Sketch the graph of each linear inequality.

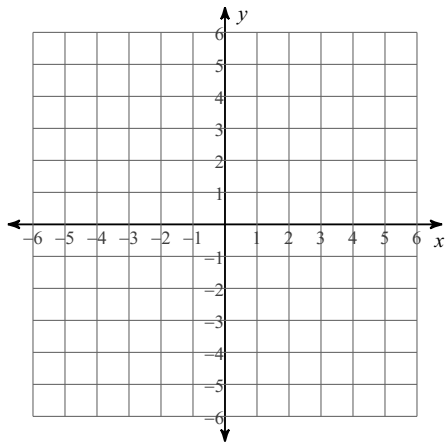
1)  $y \leq -2x + 2$



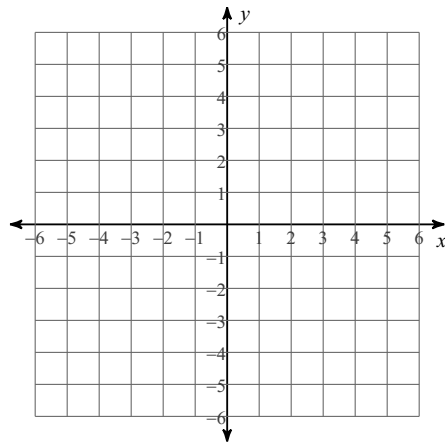
2)  $y < -\frac{3}{4}x - 5$



3)  $x \geq 1$

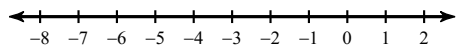


4)  $y \geq -3$

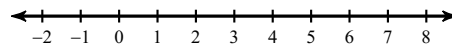


**Solve each inequality and graph its solution.**

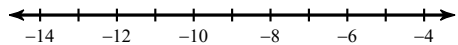
5)  $-3n + n > 2$



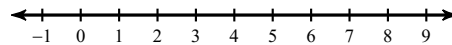
6)  $140 \geq -4(-5 - 5x)$



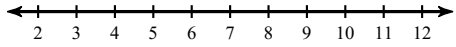
7)  $-95 \geq -4 + 7(b - 7)$



8)  $-22 + 2p \leq 8(6 - 4p) - 2$



$$9) 4(1 + 2x) \leq 34 + 2x$$



**Solve each equation.**

$$10) |x| = 10$$

$$11) |x| = 8$$

$$12) \frac{|n|}{3} = 2$$

$$13) 10 \left| \frac{k}{8} \right| - 3 = 7$$

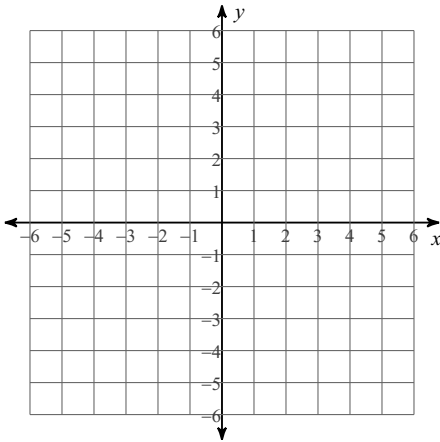
$$14) 7 + 5 \left| \frac{a}{6} \right| = 12$$

$$15) 10|5 + 6m| - 7 = 43$$

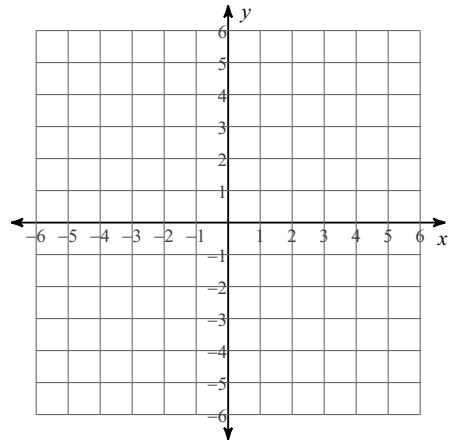
$$16) -6 + 8|6k + 10| = 74$$

Graph each equation.

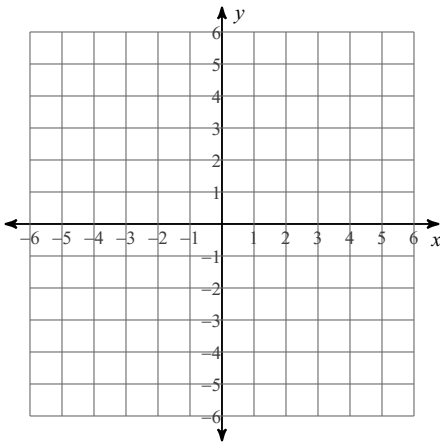
17)  $y = |x - 3| + 2$



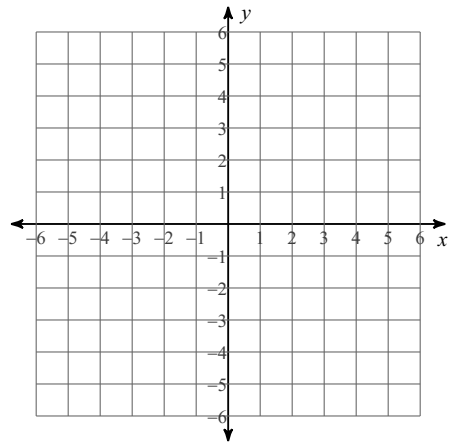
18)  $y = |x + 1|$



19)  $y = -|x + 3| - 1$

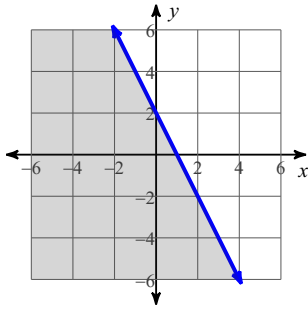


20)  $y = -|x| - 1$

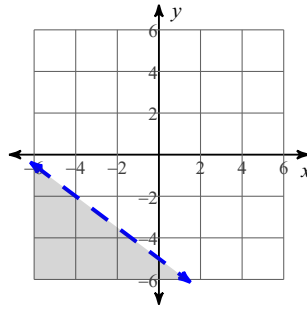


# Answers to Inequalities & Absolute Value (ID: 1)

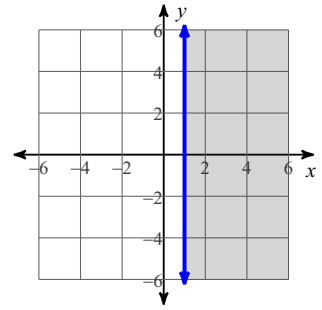
1)



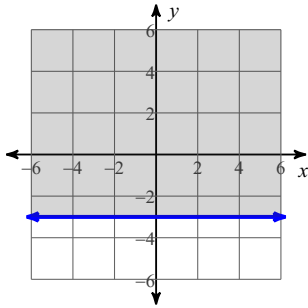
2)



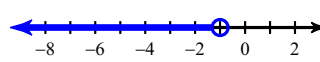
3)



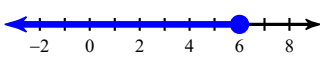
4)



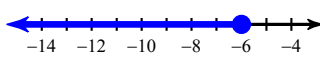
5)  $n < -1$  :



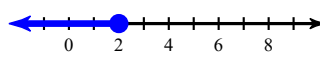
6)  $x \leq 6$  :



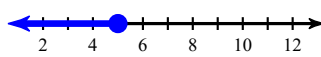
7)  $b \leq -6$  :



8)  $p \leq 2$  :



9)  $x \leq 5$  :



10)  $\{10, -10\}$

11)  $\{8, -8\}$

12)  $\{6, -6\}$

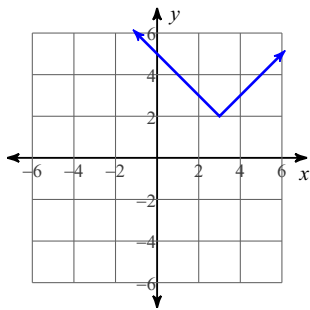
13)  $\{8, -8\}$

14)  $\{6, -6\}$

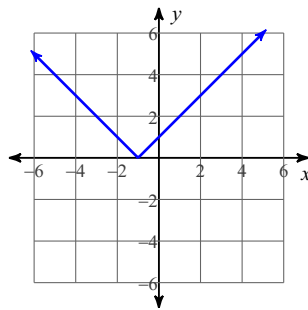
15)  $\left\{0, -\frac{5}{3}\right\}$

16)  $\left\{0, -\frac{10}{3}\right\}$

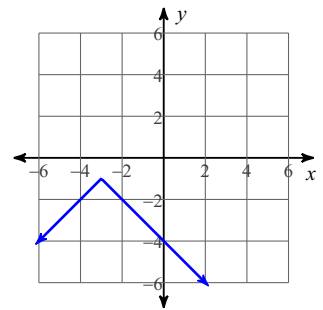
17)



18)



19)



20)

