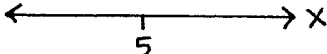


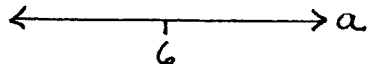
Objective: Solve inequalities using the Addition and Subtraction Properties of Inequality.

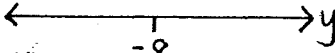
### SUBTRACTION PROPERTY OF INEQUALITY

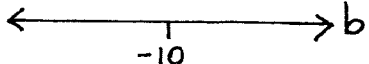
If equal amounts are subtracted from the expressions on each side of an inequality, the resulting inequality is still true.

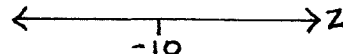
Solve each inequality for the variable. Graph your solutions.

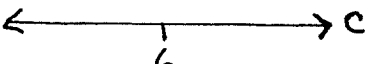
1.  $x + 4 > 9$  

2.  $a + 1 \leq 7$  

3.  $3 + y \geq -5$  

4.  $2 + b > -8$  

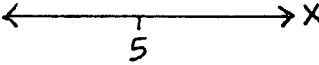
5.  $z + 4 < -6$  

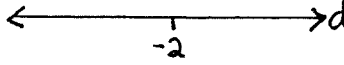
6.  $1 + c \leq 7$  

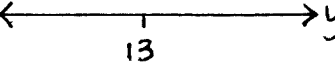
## ADDITION PROPERTY OF INEQUALITY

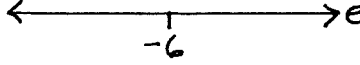
If equal amounts are added to the expressions on each side of an inequality, the resulting inequality is still true.

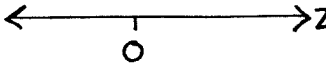
Solve each inequality for the variable. Graph your solutions.

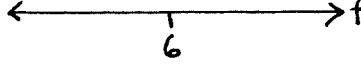
7.  $x - 2 \geq 3$  

8.  $d - 1 < -3$  

9.  $y - 4 > 9$  

10.  $-1 + e \leq -7$  

11.  $-4 + z < -4$  

12.  $f - 8 \geq -2$  

Challenge Problems:

13.  $4x + 2 \geq 3x - 1 + 2$

14.  $3 - y + 3y \leq y + 4$

