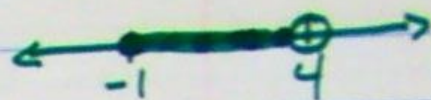


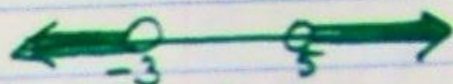
(Combined)  
[1.6] Compound Inequalities

①  $-1 \leq x$  and  $x < 4$   
 $-1 \leq x < 4$



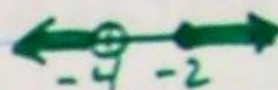
Both inequalities have to be true

②  $x < -3$  or  $x > 5$   
One of the inequalities has to be true

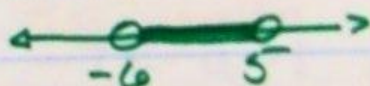


③  $-5x > 20$  or  $10 + 5x \geq 0$   
 $x < -4$                        $5x \geq -10$

$x < -4$  or  $x \geq -2$

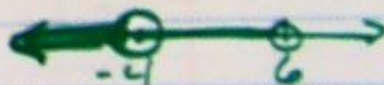


④  $-7 < a - 1 < 4$  same as  $a - 1 > -7$  and  $a - 1 < 4$   
 $\frac{+1}{-6} < a < \frac{+1}{5}$                       same                       $\frac{+1}{a} > -6$  and  $\frac{+1}{a} < 5$

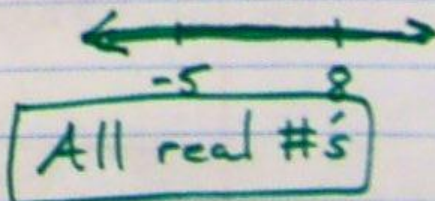


⑤  $x > -2$  and  $x < -6$   
 $-6 > x > -2$                       **N.S.**

⑥  $x < 6$  and  $x < -4$



⑦  $-5 \leq x$  or  $x \leq 8$   
 $x \geq -5$



**All real #'s**

Ⓟ 41 (#15-29) all