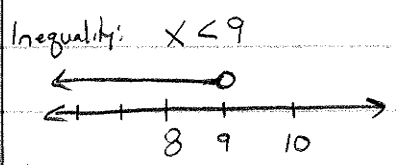


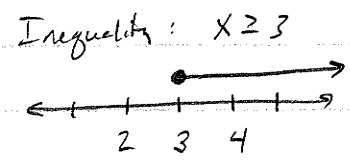
Warm-up  
~~p47: 61, 64, 71, 72, 73~~  
 Positive

# 1.6 Solving Linear Inequalities

Have less than 9.



Worked at least 3 hrs.



2

≠

## Compound Inequalities (Like compound sentences)

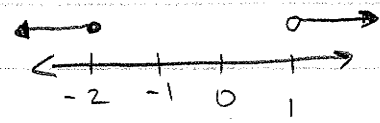
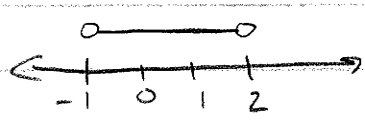
And (inbetween)

$$-1 < x < 2$$

or

$$x \leq -2 \text{ or } x > 1$$

0 0



## Solve & graph

$$5x + 2 > 7x - 4$$

-2                  -2

$$5x + 2 > 7x - 4$$

+4                  +4

$$5x > 7x - 6$$

-7x                  -7x

$$5x + 6 > 7x$$

-5x                  -5x

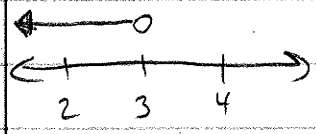
Reverse sign  
 if mult/divide  
 by negative

$$\frac{-2x}{-2} > \frac{-6}{-2}$$

$$\frac{6}{2} > \frac{2x}{2}$$

$$x < 3$$

$$3 > x \leftarrow \text{rewrite so } x \text{ on left...}$$



$$x < 3$$

\* note: inequality still points @ the x

$$12 \leq 2x - 1 < 70$$

p44: 3-19 odd, 23, 25