

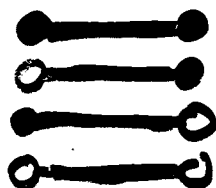
BE-1A THURSDAY 4-12-07

- ① GRAPH THE COMPOUND INEQUALITY
 $x > 1$ AND $x \leq 4$
- ② WRITE THE INTERSECTION IN
PROBLEM ① "THE SHORT WAY"
- ③ SOLVE THE FOLLOWING INTERSECTION
AND GRAPH THE SOLUTION
 $-2 \leq x + 5 \leq 1$

TAKE OUT HOMEWORK
Pg. 342 # 14, 28, 29

"SUPER GRI" for #③ ABOVE

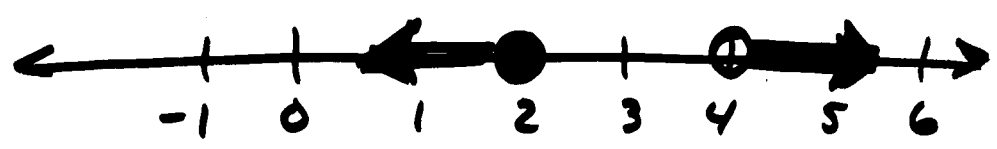
"AND" COMPOUND INEQUALITIES
LOOK LIKE ONE OF THESE



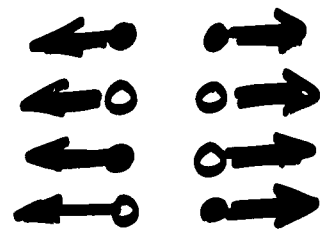
Solving and graphing compound inequalities with "OR"

THESE ARE CALLED "UNIONS"

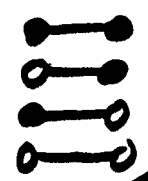
EX) $x > 4$ or $x \leq 2$



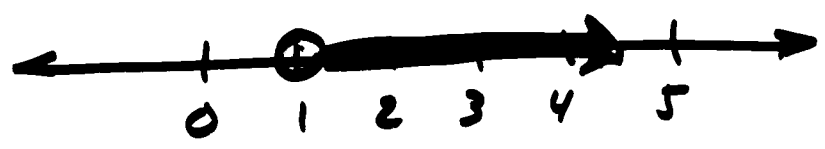
MOST COMMON SHAPES FOR AN "OR"



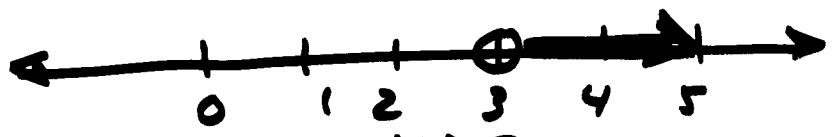
COMPARE WITH "AND"



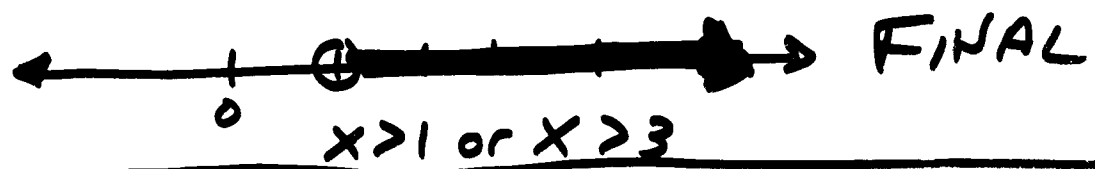
EX) $x > 1$ or $x > 3$



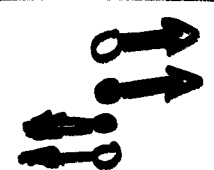
$x > 1$



$x > 3$



AN "OR" SOMETIMES LOOKS LIKE ONLY HALF OF AN "OR"



NO SHORTCUT FOR WRITING A UNION

②

Ex) Solve and graph

$$\begin{array}{rcl} -3h + 4 < 19 & \text{or} & 7h - 3 > 18 \\ -4 & -4 & +3 \quad +3 \end{array}$$

$$\begin{array}{rcl} -3h & < & 15 \\ \hline -3 & & -3 \end{array}$$

$$h > -5$$

$$\begin{array}{rcl} 7h & > & 21 \\ \hline 7 & & 7 \end{array}$$

$$h > 3$$



EX 4 Pg 341

HW: Pg 342 # 30, 31, 32, 33