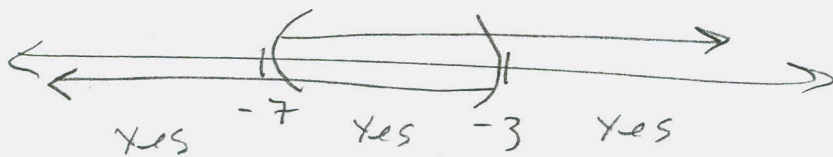


121 S 1.7 II #5 42, 44, 48, 52, 63, 71, 75

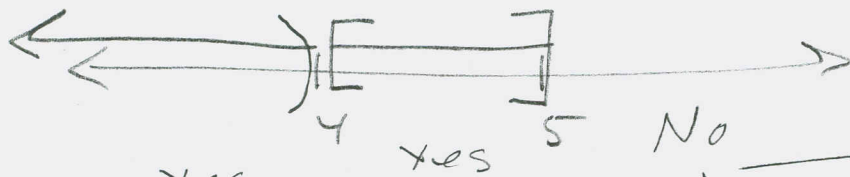
#5 35-44 write as a single interval

(42) $(-\infty, -3) \cup (-7, \infty)$ OR



All real #s = $[-\infty, \infty]$

(44) $(-\infty, 4) \cup [4, 5]$



4 is included: $[-\infty, 5]$

#5 45-58 Solve each compound inequality. Write the solution set in interval notation, and graph it. (I always graph 1st)

(48) $\frac{4-x}{2} > 1$ and $\frac{2x-7}{-3} < 1$

$4-x > 2$

$-x > -2$

$x < 2$

$2x-7 > -3$

$2x > 4$

$x > 2$



No and No when $x = 2$, so,

\emptyset

121 $\sum 1.7 \text{ II} \#s 52, 63, 71, 75$

(52) $\frac{1}{2}(x+6) > 3$ OR $4(x-1) < 3x-4$

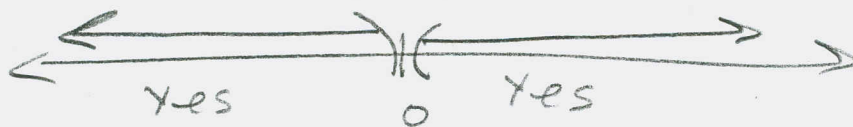
$x+6 > 6$

$x > 0$

$4x-4 < 3x-4$

$x < 0$

OR



But No @ $x=0$, itself, so

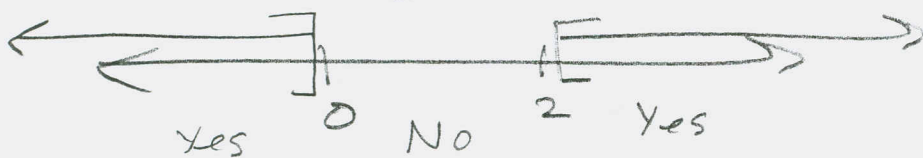
$(-\infty, 0) \cup (0, \infty)$

#s 59-76 Solve each absolute value inequality
write the sol'n set using interval notation
and graph it.

(63) $|x-1| \geq 1$

$x-1 \geq 1$ OR $x-1 \leq -1$

$x \geq 2$ OR $x \leq 0$



$(-\infty, 0] \cup [2, \infty)$

(71) $|4-5x| < -1$ \emptyset

121 § 1.7 II # 75

$$\textcircled{75} \quad \left| \frac{x-3}{2} \right| > 1$$

$$\frac{x-3}{2} > 1 \quad \text{OR} \quad \frac{x-3}{2} < -1$$

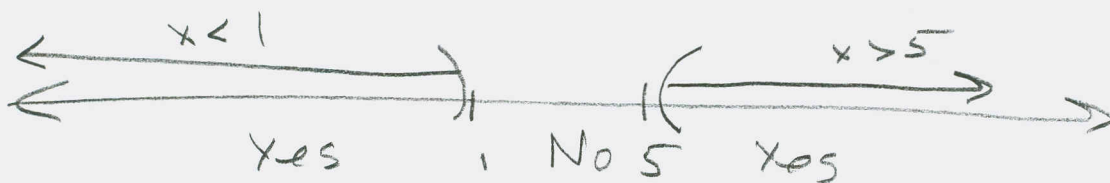
$$x-3 > 2$$

$$x-3 < -2$$

$$x > 5$$

OR

$$x < 1$$



$$\boxed{(-\infty, 1) \cup (5, \infty)}$$

OR : At least one inequality satisfied
AND : BOTH inequalities satisfied.