

$$67) |3h - 1| = |7 + 3h|$$

$$\begin{array}{r} 3h - 1 = 7 + 3h \\ -3h \quad \quad -3h \\ \hline -1 = 7 \end{array}$$

No Sol

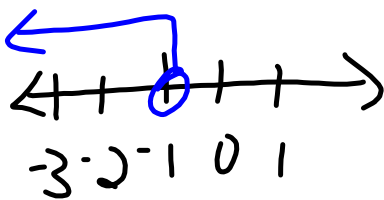
$$\begin{array}{r} 3h - 1 = -(7 + 3h) \\ 3h - 1 = -7 - 3h \\ +3h \quad \quad +3h \\ \hline 6h - 1 = -7 \\ +1 \quad +1 \\ \hline 6h = -6 \\ \underline{6} \quad \underline{6} \\ h = -1 \end{array}$$

Softbook Pg 21

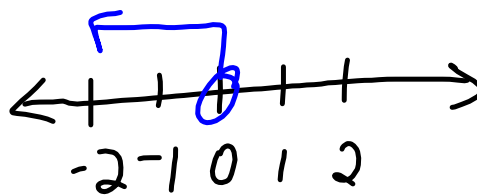
Solving Inequalities Using
Addition & Subtraction

Solve & Graph

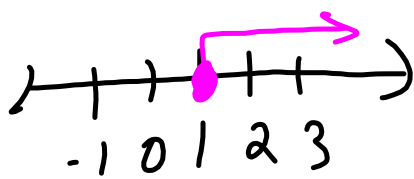
$$\begin{array}{r} 1) \ x - 3 < -4 \\ \quad +3 \quad +3 \\ \hline \quad \quad \quad x < -1 \end{array}$$



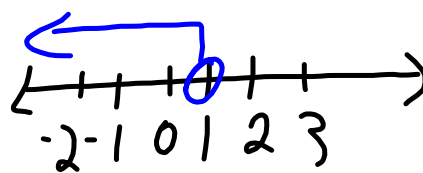
$$\begin{array}{r} 2) \ -3 > -3 + h \\ \quad +3 \quad +3 \\ \hline \quad \quad \quad 0 > h \end{array}$$



$$\begin{array}{r} 3) \quad 2 - (-1) \geq 2 \\ \quad 2 + 1 \geq 2 \\ \quad \underline{-1 \quad -1} \\ \quad 2 \geq 1 \end{array}$$



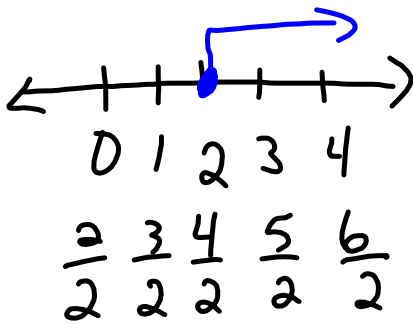
$$\begin{array}{r} 4) \quad 11 > 10 + u \\ \quad \underline{-10 \quad -10} \\ \quad 1 > u \end{array}$$



$$5) \frac{5}{2} \leq C + \frac{1}{2}$$

$$\frac{-1}{2} \quad \frac{-1}{2}$$

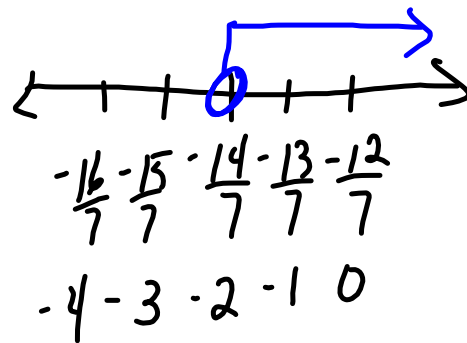
$$2 \frac{4}{2} \leq C$$



$$6) P - \frac{3}{7} > -\frac{17}{7}$$

$$+\frac{3}{7} \quad +\frac{3}{7}$$

$$P > -\frac{14}{7} \text{ or } -2$$

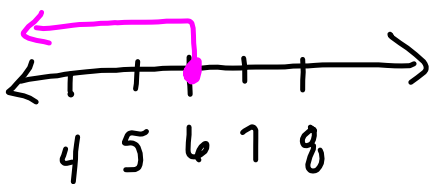


$$7) x - (-6) \leq 12$$

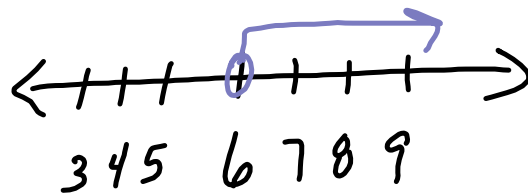
$$x + 6 \leq 12$$

$$\frac{-6 \quad -6}{\hline}$$

$$\text{Therefore } x \leq 6$$



False Side \rightarrow Dark Side



$$x > 6$$

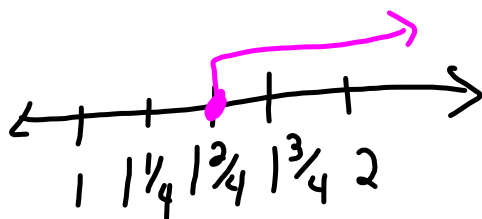
$\{x \mid x > 6\}$ make the
Inequality $x - (-6) \leq 12$ False

$$8) x + \frac{1}{4} \geq 1\frac{3}{4}$$

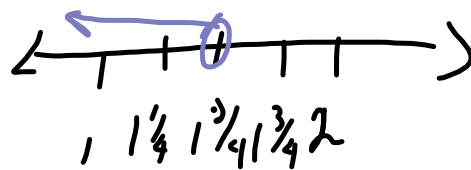
$$x + \frac{1}{4} \geq \frac{7}{4}$$

$$-\frac{1}{4} \quad -\frac{1}{4}$$

$$x \geq \frac{6}{4} \text{ or } \frac{3}{2} \text{ or } 1\frac{1}{2} \text{ or } 1\frac{2}{4}$$



False



$$x < 1\frac{2}{4}$$

$$\{x \mid x < 1\frac{2}{4}\}$$

Set that makes
it false.