

b.1 Solving

April 16, 2007

Inequalities w/ Add. & Subt.

Recall:

1 Variable: 1 Dimension

2 Variables: 2 Dimensions

3 Variables: 3 Dimension



graph of an Inequality: the set
of points on a number line
(x-axis)
that represents all solutions
of the One Variable inequality

Real Numbers: All #'s, Pos. & Neg.
Including Fra. Dec. & 0

$(-\infty, \infty)$

Symbol $\rightarrow \mathbb{R}$

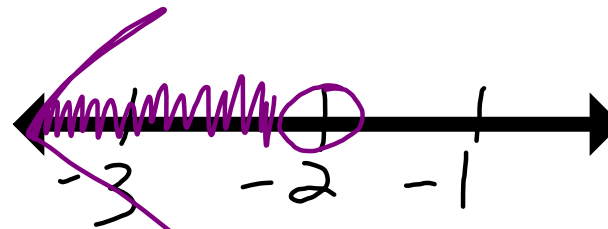
$\mathbb{R}$

Bold $\mathbb{R}$

Recall:

$$\begin{array}{r} x + 6 = 4 \\ -6 \quad -6 \\ \hline x = -2 \end{array}$$

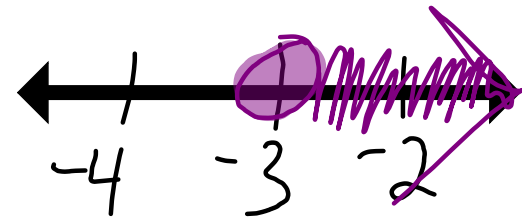
$$\begin{array}{r} x + 6 < 4 \\ -6 \quad -6 \\ \hline x < -2 \end{array}$$



$$\begin{array}{r} -2 > n - 5 \\ +5 \quad +5 \\ \hline 3 > n \end{array}$$

A number line with tick marks at 2, 3, and 4. An open circle is drawn at 3. A purple arrow points to the left from the open circle, indicating the solution set $n < 3$.

$$\begin{array}{r} p - 1 \geq -4 \\ +1 \quad +1 \\ \hline p \geq -3 \end{array}$$



O.T.L.

① pg 326-327:

3, 6, 10, 12, 16, 24-28 (e)

41, 44, 50, 54