

b.7.
cont.

May 14, 2007

$$|3x + 2| - 5 < 0$$

$$|3x + 2| < 5$$

$$3x + 2 < 5$$

$$3x < 3$$

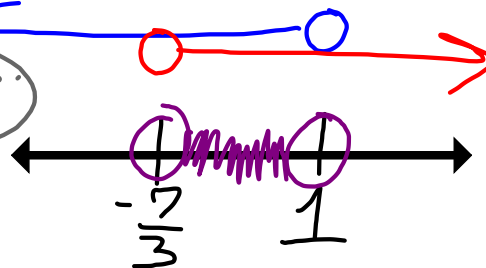
$$x < 1$$

$$3x + 2 > -5$$

$$3x > -7$$

$$x > -\frac{7}{3}$$

and...
intersection...
What's in
Common.



$$|-3x - 9| - 2 \geq 7$$

+2 +2

$$|-3x - 9| \geq 9$$

$$-3x - 9 \geq 9 \quad \text{or} \quad -3x - 9 \leq -9$$

+9 +9

+9 +9

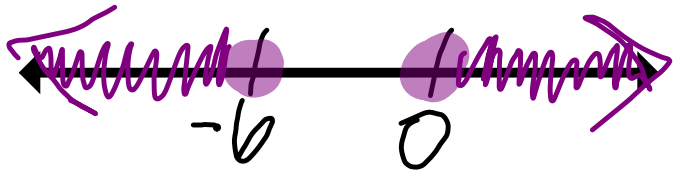
$$\frac{-3x}{-3} \geq \frac{18}{-3}$$

$$\frac{-3x}{-3} \leq \frac{0}{-3}$$

Switch Because... we ÷ by -3

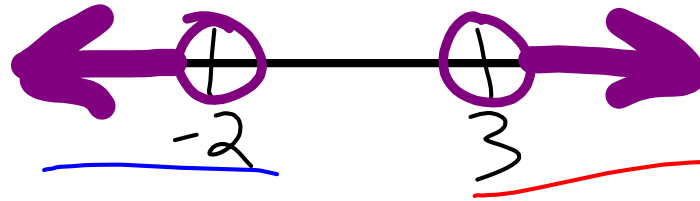
$$x \leq -6$$

$$x \geq 0$$



or... All Union... Together

Write
the
Compound
Inequality



1st: give
the word

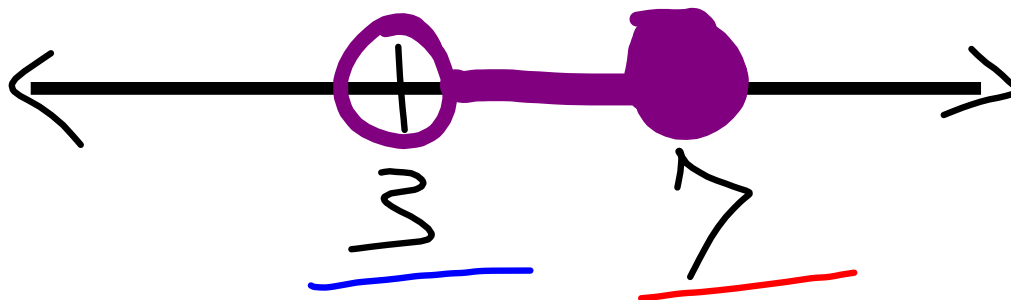
$$x < -2 \text{ or } x > 3$$

2nd: give
the "x"

3rd: give
the #'s

4th: det. the
Inequalities

Write
the
Compound
Inequality



$$\underline{\underline{x > 3 \text{ and } x \leq 7}}$$

Is there another
way to write
the "and"
Inequality?

$$3 < x \text{ and } x \leq 7$$

$$\underline{\underline{3 < x \leq 7}}$$

O.T.L.

① Study for Quiz Tomorrow

② Correct y-day's

Turn this in today
tomorrow
if not completed

③ Pg 365: 36-41 all

O.T.L.

→ Separate paper

Quiz Tomorrow

O.T.L.

① Ex 5 pg 363 into Notes

② Pg 364-365: 8, 9, 12, 13,
15, 17, 21, 24, 25, 30,
34, 37, 40, 41, 42

③ Quiz **Monday**