

## b.3 Multi-Step Inequalities

Dec. 13, 2006

Steps to Solving Multi-Step Equ.  
Inequality.

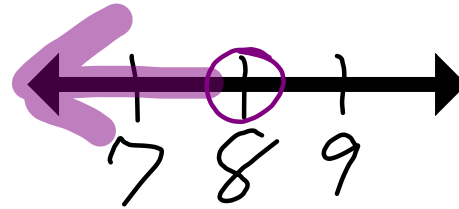
- ① Simplify: Dist. + Comb. Like Terms
- ② Collect Variables: Get the Var. on one side.
- ③ Inverse Operation: Get the Var. by Itself
- ④ Check   
 But... We need to switch the Inequality Sign if we \* or ÷ by a Negative #.
- ⑤ Graph

$$\text{ex 1) } 2y - 9 < 7$$

$$\frac{2y - 9}{+9} < \frac{7}{+9}$$

$$\frac{2y}{2} < \frac{16}{2}$$

$$y < 8$$



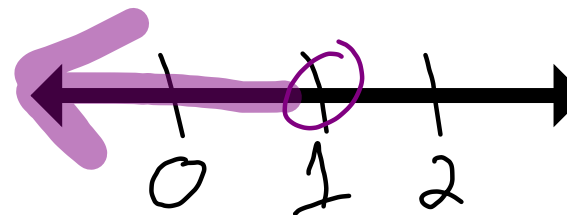
$$5 - x > 4$$

$$\frac{5 - x}{-1} > \frac{4}{-1}$$

$$-x > -1$$

$$x < 1$$

we Do this first, since we have  $\div$  by  $-1$

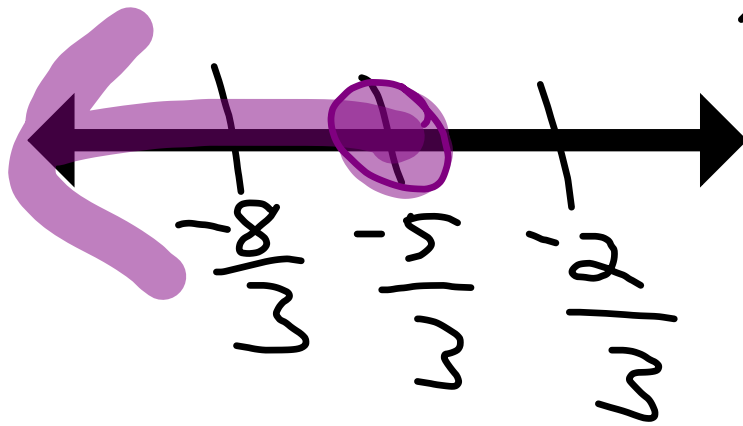


ex 3)  $3(x+4) \leq 7$

$$3x + 12 \leq 7$$

$$\frac{3x + 12}{3} \leq \frac{7}{3}$$

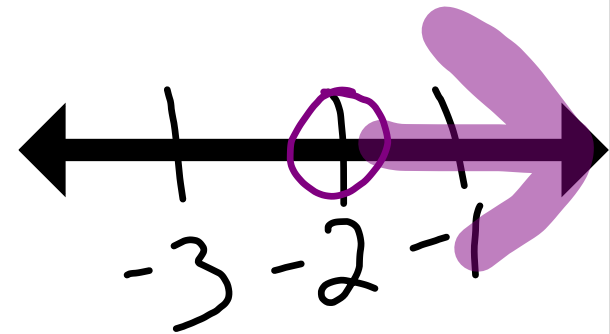
$$x \leq \frac{7}{3}$$



ex4)

$$\begin{array}{r} -2(x+1) < 2 \\ -2x - 2 < 2 \\ \hline -2x < 4 \\ \hline -2 & \quad \quad \quad \hline x > -2 \end{array}$$

We do this first...  
Since we ÷ by -2



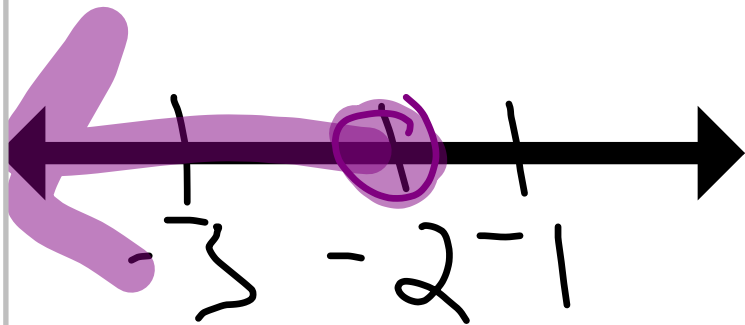
ex 5)  $2x - 3 \geq 4x + 1$

$$\begin{array}{r} 2x - 3 \geq 4x + 1 \\ -2x \quad -2x \\ \hline \end{array}$$

$$\begin{array}{r} -3 \geq 2x + 1 \\ -1 \quad -1 \\ \hline \end{array}$$

$$\begin{array}{r} -4 \geq 2x \\ 2 \quad 2 \\ \hline \end{array}$$

$$-2 \geq x$$



O.T.L.

① Solve + Graph

Pg 339-340:

20, 24, 26-31(a)

33-41(o), 49, 50

A.W.

# December 2006

AHS Mathematics Department  
2006-2007 First Semester  
Exam Schedule

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
10	11	12	13	14	15	16
17	18 Int. Math. Notebooks	19 Alg. I-Reg. Notebooks	20 All Courses Mastery Exam Alg. I-A Notebooks	21 Winter Break	22	23
24 Winter Break	25	26	27	28	29	30

**Last Day for FULL Credit on Z-Grades** (points to Dec 20)

**Winter Break** (indicated by green arrows from Dec 21 to Dec 30)

# January 2007

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31 Winter Break	1	2	3 1st Day Back	4 Alg. I-En. Alg. I	5 Alg. I-A Alg. I-B Alg. I-C Alg. I-D	6
7	8 Period 5 Normal	9 Period 1 8:00-9:30 Period 2 9:35-11:05	10 Period 3 8:00-9:30 Period 4 9:35-11:05	11 Period 6 8:00-9:30 Period 7 9:35-11:05	12	13

**Last Day for HALF Credit on Z-Grades** (points to Jan 4)

**Winter Break** (indicated by green arrows from Dec 24 to Jan 2)



Mastery Exams



Semester Exams

Notebooks

# What is in the Notebook?

## Algebra I Regular:

1. Notebook Form
2. Algebra I Mastery Topics
3. Hall Passes
4. Signed Grade Sheets
5. Contract
6. 23 or 24 Days of Notes
7. Old Notes & Hall Passes
8. OTL Section
9. Graded Material Section