

**Algebra - November 9, 2011**

## Morning Quiz

Solve and graph on a number line

$$-1 \leq -4x + 7 \leq 11$$

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Check your answers:

5)  $-5 < j < 5$

7)  $2 < n \leq 6$

9)  $1 < x < 3$

11)  $5 < x < 8$

13)  $3 \leq s < 4$

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$$\begin{array}{r} -1 \leq -4x + 7 \leq 11 \\ -7 \quad \quad \quad -7 \quad \quad -7 \\ \hline -8 \quad \quad \quad -4x \quad \quad \leq 4 \\ \underline{-4} \quad \quad \quad \underline{-4} \quad \quad \quad \underline{-4} \\ 2 \geq x \geq -1 \end{array}$$



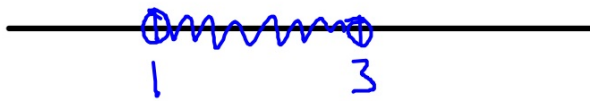
$$9. \quad \frac{-2}{-7} < -3x + \frac{7}{-7} < \frac{4}{-7}$$

$$\frac{-9}{-3} < -3x < \frac{-3}{-3}$$

$$3 > x > 1$$

Same

$$1 < x < 3$$



And

Compound: More than one inequality.

$$\begin{array}{ccc} 3 & - & x \geq 7 & \text{or} & 2x & - & 3 > 5 \\ -3 & & -3 & & +3 & & +3 \end{array}$$

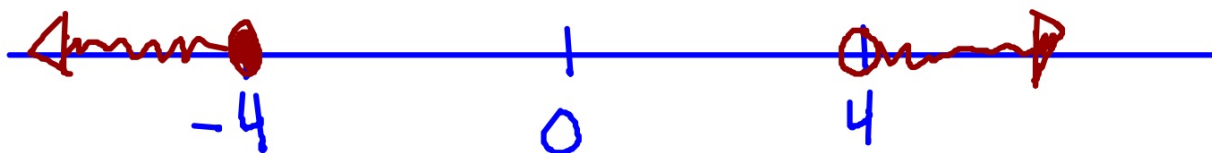
$$\begin{array}{ccc} -x & \geq & 4 \\ \underline{-1} & & \underline{-1} \end{array}$$

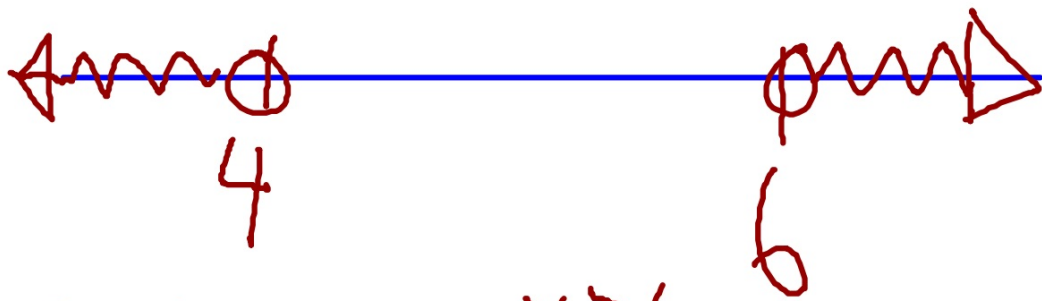
$$x \leq -4$$

or

$$\begin{array}{ccc} 2x & > & 8 \\ \underline{2} & & \underline{2} \end{array}$$

$$x > 4$$





$x < 4$  or  $x > 6$

- 1) Fractions/Decimals
- 2) Distribute
- 3) Combine Like Terms (CLT)
- 4) Addition/Subtraction
- 5) Multiplication/Division

F riends

D on't

C urse

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