## Chapter #9 Linear Inequalities

December-12-13

## 9.1 Representing Inequalities

Inequality: - a mathematical statement comparing expressions that may not be equal

-can be written using the symbols:

 $\langle , \rangle, \langle , \rangle, \text{ or } \neq$ 

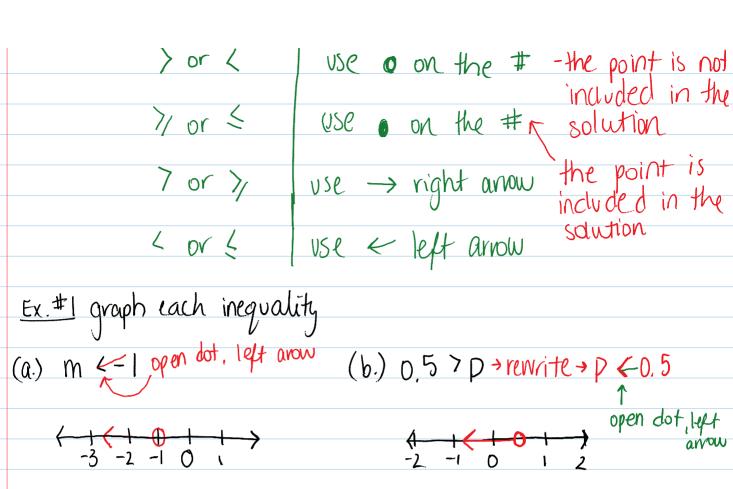
Reading an Inequality: (3 ways)

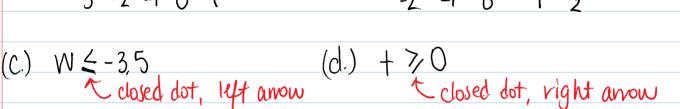
1) Verbally - using words

Inequality	Meaning
	J
a > b	a is greater than b
	U
a < b	a is less than b
a ≥b	a is greater than or egual to b
	V
a <b>≤</b> b	a is less than or equal to b
a ≠ b	a is not equal to b
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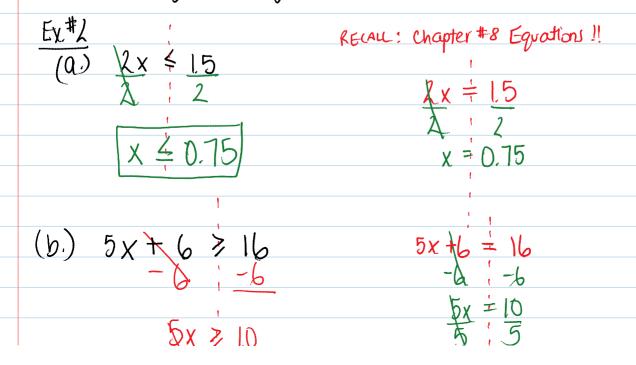
2. Graphically: using a number line with target # in the middle

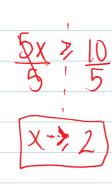
Inequality	Symbol	
J	V	
$\rangle$ or $\langle$	use o on the # - the point	- is
	included	

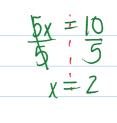


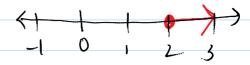


3. Algebraically: use symbols such as variables









(c) 
$$\frac{1}{1}$$

