

Ch. 6. Review for Test.

May 24, 2007

① | | which is and & which is or
 $< / \leq \Rightarrow$ and
 $> / \geq \Rightarrow$ or

② Solve Inequalities

1-Step

Multi-Step

w + w/o Negatives

If you
multiply or
Divide by
a Negative
switch the
sign.

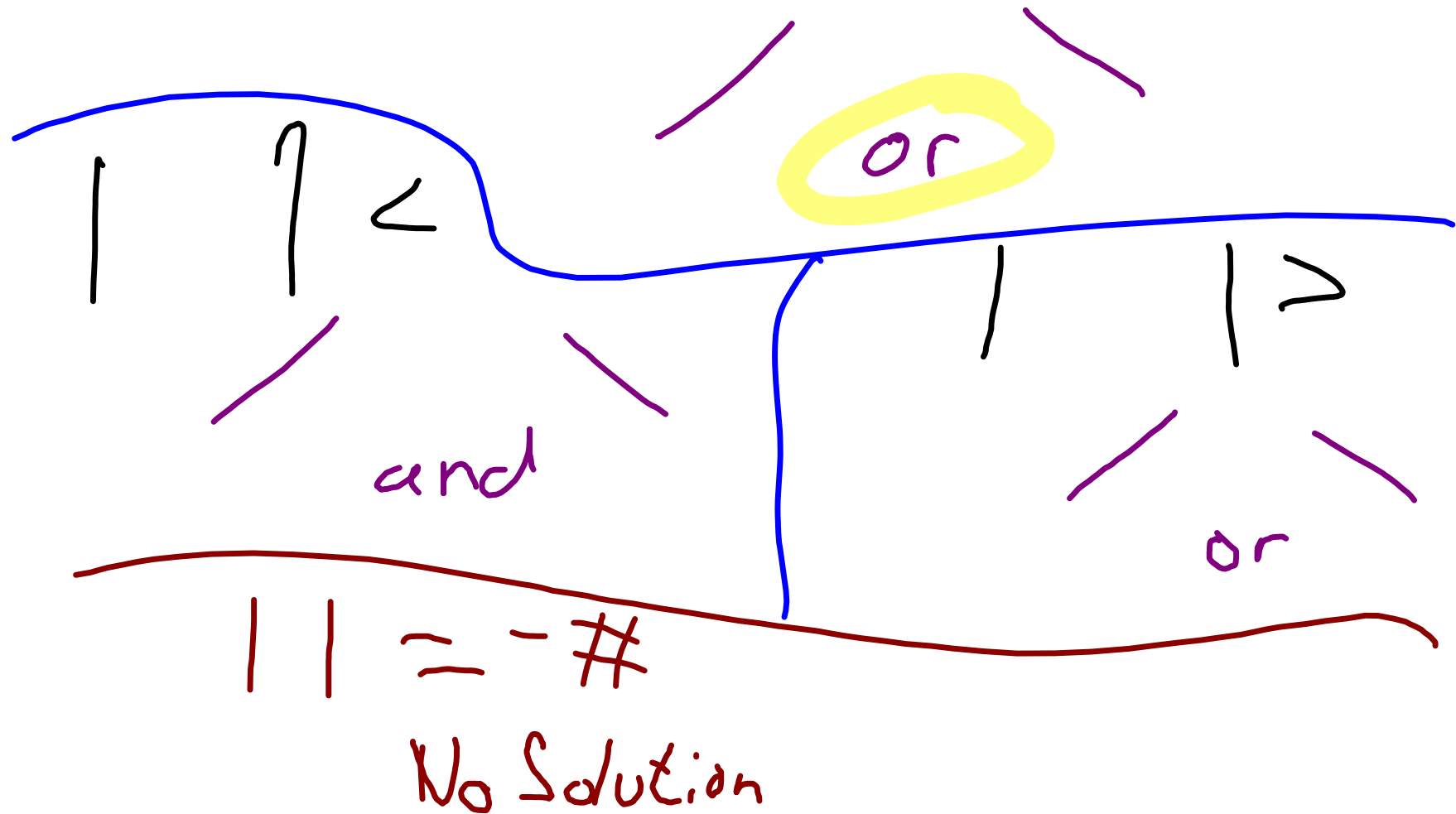
1 open circle / close circle

Direction: always start reading w/
the Variable

↓ -ands

2 at the
same time
- O/S

③ Abs. Value : $| \quad | =$



④ Graph the linear Inequality

- 1 for the line

- 1 - - or —

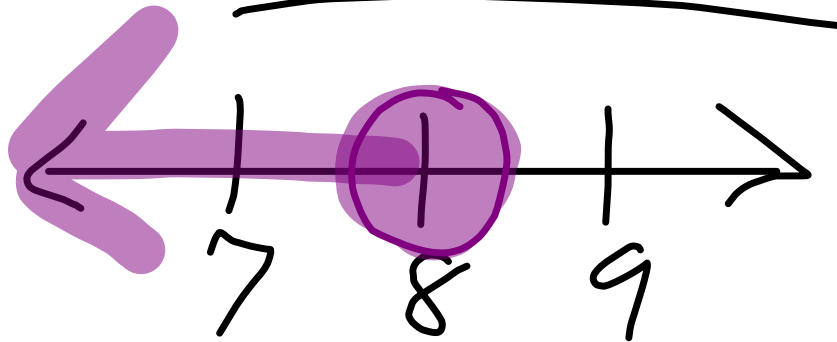
- 1 pt for the Shading

4 - total

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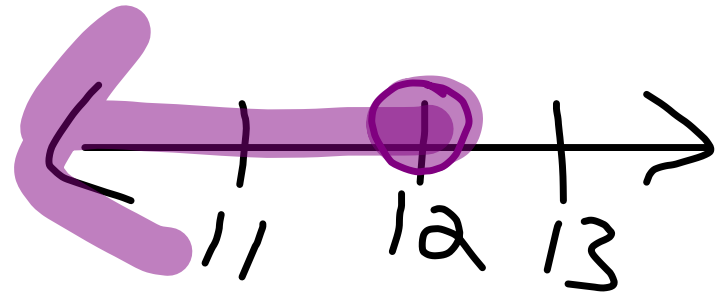
$$\frac{4}{1} \left(\frac{1}{4} x \right) \leq 2 \cdot 4$$

$$x \leq 8$$



$$\frac{4}{3} \left(\frac{3}{4} x \right) \leq \cancel{9}^3 \cdot \frac{4}{\cancel{3}^1}$$

$$x \leq 12$$



15

$$-5 < 3x - 4 < 17$$

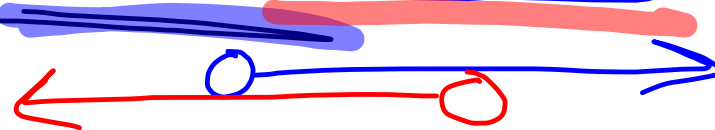
+4

+4

+4

$$\frac{-1}{3} < \frac{3x}{3} < \frac{21}{3}$$

$$-\frac{1}{3} < x < 7$$



this is
an and
statement

and means

Intersect

"Common"

or = union
All together

③ $|3x - 9| + 6 < 18$

$|3x - 9| < 12$

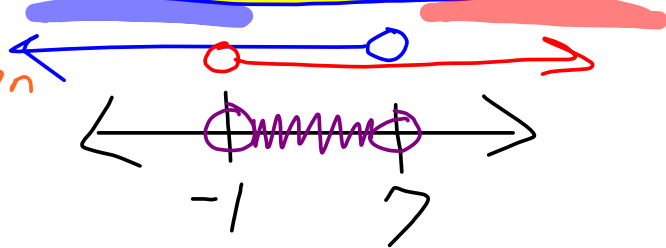
$3x - 9 < 12$ and $3x - 9 > -12$

$\frac{3x}{3} < \frac{21}{3}$

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

$x < 7$ and $x > -1$

and meas
intersection



$$-4x - 2y < 6$$

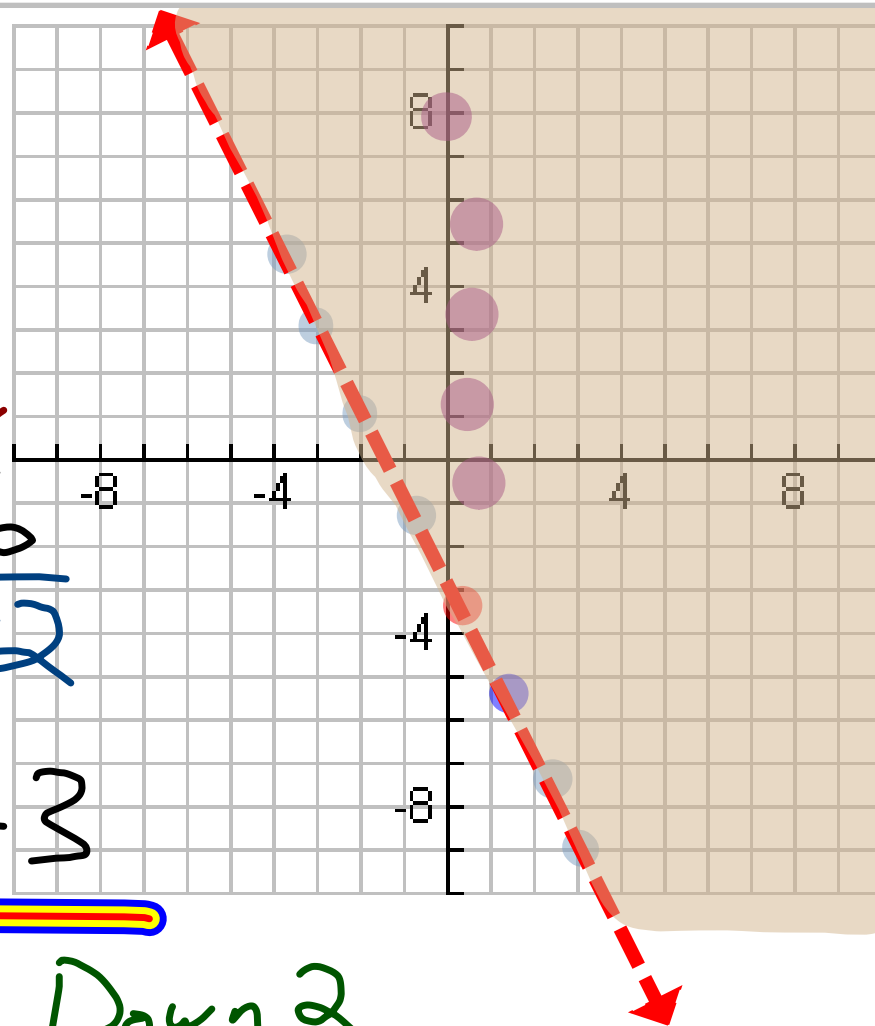
$+4x \qquad +4x$

$$\frac{-2y}{-2} < \frac{4x+6}{-2}$$

$$y > -2x - 3$$

$$m = \frac{\text{rise}}{\text{run}} = -2 = \frac{-2}{1} \quad \begin{array}{l} \text{Down 2} \\ \hline \text{Rt. 1} \end{array}$$

$$b = y\text{-int.} = -3 \Rightarrow (0, -3)$$



① Quiz 1 6.1-6.2

② Quiz 2 6.4-6.7

③ Book Quiz

④ Alg I < Review Test

O.T.L. finish any
② Graphs Not
Completed

① Study for
the Ch. 6. Test