

# Test Review

Oct. 18, 2006

know: Study Quiz 1 + Quiz 2

$\mathbb{N}$  → Natural #'s  
→ {1, 2, 3, ...}

$\mathbb{W}$  → Whole #  
→ {0, 1, 2, 3, ...}

$\mathbb{Z}$  → Integers  
→ {... -2, -1, 0, 1, 2, ...}

$\mathbb{R}$  → Real #'s  
→ {... -2 ... -1 ... 0 ... 1 ... 2 ...}

$\mathbb{Q}$  → Rational #'s  
→  $\frac{\mathbb{Z}}{\mathbb{Z}}$

Notes  
→ Systems

Find {Solution} Sets...

- Words ✓

- equations / Inequalities ✓

1<sup>st</sup> p<sup>y</sup> of Quiz 1

# Statements as Variables

ie:  $P \wedge Q \wedge \neg P \wedge \neg Q$

Sentences w/ <sup>\*</sup>and/or

writing them

- ② Symbol  $\Rightarrow$  words
- ① words  $\Rightarrow$  symbol
- ③ Truth Values



9 wd  $\rightarrow$  sy  
10 wd  $\rightarrow$  sy  
11 wd  $\rightarrow$  sy

~~use pre~~

12 sym  $\rightarrow$  wd  
13 sym  $\rightarrow$  wd  
14 sym  $\rightarrow$  wd

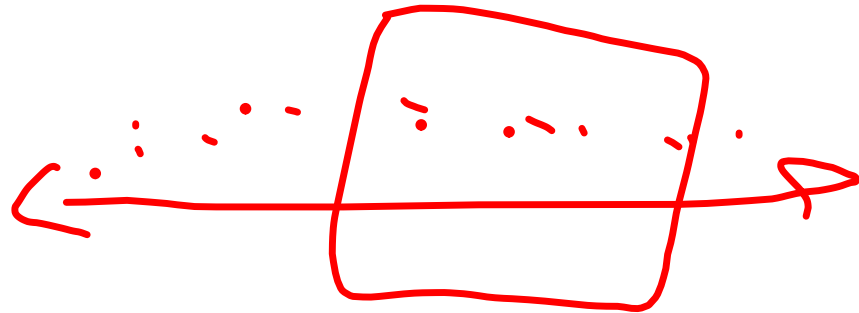
15 use 12  $\rightarrow$  T.V.  
16 use 13  $\rightarrow$  T.V.  
17 use 14  $\rightarrow$  T.V.

find Solution Sets w/ # Lines

2 ?'s

Both w/ and

which Means Intersection



# Fill-In Page ...

And : Math word  
also Symb.  
or Truth Value  
exp.

\* Trans " $p \wedge q$   
 $p$  and  $q$ "

If, Then Mat words, If, Then  
Symbol exp.  $p \rightarrow q$   
Truth Trans.

Converse

Inverse

Contrapositive

Orig...  $\rightarrow$  T.V.  $T \rightarrow F = F$

$\hookrightarrow$  Conv.  $\rightarrow$  T.V.  $F \rightarrow T = T$

$\rightarrow$  Inv.  $\rightarrow$  T.V.

$\rightarrow$  Cont.  $\rightarrow$  T.V.

# 5 Truth Tables

O.T.L.

① Study

② Test over entire Chapter  
is tomorrow Thursday!  
Be Ready.