


- | | |
|-----------------|------------------|
| 1. No: Command | 9. Yes: False |
| 2. Yes: False | 10. Yes: Unknown |
| 3. No: Question | 11. Yes: False |
| 4. Yes: Unknown | 12. No: Question |
| 5. Yes: True | 13. Yes: True |
| 6. No: Command | 14. Yes: Unknown |
| 7. No: Question | 15. Yes: True |
| 8. Yes: True | 16. Yes: True |

1.1 cont. again

Sept. 5, 2006

- Solution Set: The set
of ALL replacements
from the domain which
make an open sentence True!



find the Solution Set for
the open Sentences

i) $8 - 5 = x$

~~$x = 3$~~

$\{3\}$

if the domain
is $\{0, 1, 2, 3\}$

ii) $8 - 3 = x$

$\{5\}$

if the domain is \mathbb{W}

iii) $2y > 4$; if the domain is \mathbb{N}

if $y=0 \rightarrow F$

if $y=1 \rightarrow F$

$y=2 \rightarrow F$

$y=3 \rightarrow T$

$y=4 \rightarrow T$

$y=5 \rightarrow T$

\vdots

$\vdots T$

$\{3, 4, 5, \dots\}$

iii) $2y \leq 4$; if the domain is \mathbb{N}

if $y=0 \rightarrow T$

if $y=1 \rightarrow T$

$y=2 \rightarrow T$

$y=3 \rightarrow F$

$y=4 \rightarrow F$

$y=5 \rightarrow F$

\vdots
 $F \dots$

$\{0, 1, 2, \dots\}$

liv) $8 - x = 3$ if the domain is
the set of even \mathbb{N}

$$\text{if } x=2 \rightarrow F$$

$$x=4 \rightarrow F$$

$$x=6 \rightarrow F$$

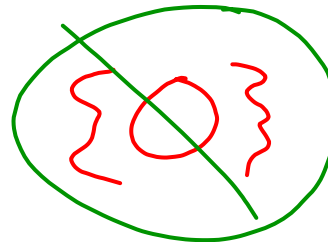
$$x=8 \rightarrow F$$

Can never Be True

No Solution

* Empty Set \Leftrightarrow Null Set

**



O.T.L.

① pg 4 : Written : 1-30(o),
4,6