

1. No: Command
2. Yes: False
3. No: Question
4. Yes: Unknown
5. Yes: True
6. No: Command
7. No: Question
8. Yes: True

9. Yes: False
10. Yes: Unknown
11. Yes: False
12. No: Question
13. Yes: True
14. Yes: Unknown
15. Yes: True
16. Yes: True

1.1 cont. again

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- 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) $8 - 5 = x$ if the domain
is $\{0, 1, 2, 3\}$

~~$x = 3$~~

$\{3\}$

ii) $8 - 3 = x$ if the domain is \mathbb{N}

$\{5\}$

iii) $\exists y > 4$; f the domain is \mathbb{N}

$$\text{if } y=0 \rightarrow F$$

$$\text{if } y=1 \rightarrow F$$

$$y=2 \rightarrow F$$

$$y=3 \rightarrow T$$

$$y=4 \rightarrow T$$

$$y=5 \rightarrow T$$

...

$$\dots \rightarrow T$$

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

(ii) $Q y \leq 4$; if the domain is W

$$\text{if } y=0 \rightarrow T$$

$$\text{if } y=1 \rightarrow T$$

$$y=2 \rightarrow T$$

$$y=3 \rightarrow F$$

$$y=4 \rightarrow F$$

$$y=5 \rightarrow F$$

$$\vdots \rightarrow F \vdots$$

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

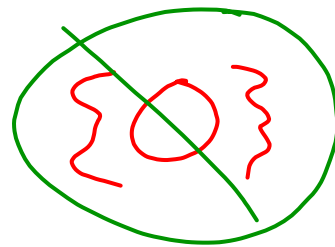
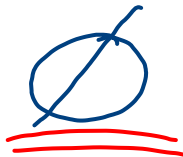
i) $8 - x = 3$ if the domain is
the set of even \mathbb{N}
if $x=2 \rightarrow F$
 $x=4 \rightarrow F$
 $x=6 \rightarrow F$
 $x=8 \rightarrow F$

Can never Be True

No Solution

* Empty Set \Leftrightarrow Null Set

**



O.T.L.

① Pg 4 : Written : 1-30(0),
4,6