Theory of Meaning Assignment #1

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1 Exercise E

Sentences that don't have truth conditions

1. What color is that bear?
2. Close the door!
3. I promise to make you pancakes. [debatable]
4. This sentences is false. [debatable; my opinion is that it has truth conditions, they just can't really be evaluated because it's a paradox]

2 Exercise F

There is insufficient information to make a complete deduction concerning the meaning of each of the words. Because the triangle and square switching positions corresponds to *oxxukuut* and *kaaxukuut* switching positions, we can deduce that these two words likely correspond to 'triangle' and 'square'. We cannot be sure which is which, because the preposition could be either 'above' or 'below'. Moreover, we don't even know which of the middle words is the preposition and which is the verb. Given all this, here are the possible meanings that I think we can reasonably guess:

li = determiner
oxxukuut = triangle/square
kaaxukuut = square/triangle
wan = to be verb/above/below
rub'el = above/below/to be verb

It turns out that *oxxukuut* means 'triangle' and *kaaxukuut* means 'square' (I looked it up). Given this, we can say that:

The extension of *oxxukuut* is the set of all triangles.
The extension of *kaaxukuut* is the set of all squares.

3 Exercise N

- (SCAN) Not every passenger was examined; some of them were, and some of them were not.
- (MEDICAL) None of the passengers were examined.

4 Exercise O

i Carol $\in$ {y | y is hungry or y is tired} *if and only if* Carol is hungry, tired, or both.

ii {x | 2 < n < 69}

iii The first two statements are true, the last one is false.

5 Exercise R

1. i, iv, and vii are true; the rest are false.
2. (a) T+<3,@> = { < 1,$>,<2,#>,<3,@>}
   (b) T+<3,@>,<4,%> = { < 1,$>,<2,#>,<3,@>,<4,%>}
   (c) i. T(3) = *undefined*
   ii. T+<3,@>(3) = @
   iii. T+<3,@>,<4,%> = @