

Theory of Meaning Assignment #3

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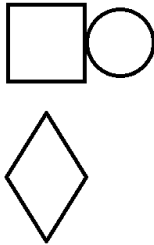
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1 Exercise H

1. (i) **every**_x{Px}Gx where P = is a pig and G = grunted
(ii) **some**_x{Mx}Gx where M = met Mary and G = is a gardener
(iii) **the**_x{Bx}Lx where B = is a black horse and L = likes Mary
(iv) **every**_x{Mx}Kx where M = is a man and K = knows Susan
2. 1 **every**_xMxKx where M = is a man and K = knows some woman (or other)
2 **some**_xWxKx where W = is a woman and K = knows every man

2 Exercise I

1. (1) INSTANTIATE, NO: **no**_y{Gy & Py} Sy is true w.r.t. L iff there is no object o such that (Gy & Py) is true w.r.t. $L+\langle y, o \rangle$ and Sy is also true w.r.t. $L+\langle y, o \rangle$
(2) INSTANTIATE, AND: ... iff there is no object o such that Gy is true w.r.t. $L+\langle y, o \rangle$ and Py is true w.r.t. $L+\langle y, o \rangle$ and Sy is also true w.r.t. $L+\langle y, o \rangle$
(3) INSTANTIATE, ATOMIC-1: ... iff there is no object o such that $L+\langle y, o \rangle(y) \in L+\langle y, o \rangle(G)$ and $L+\langle y, o \rangle(y) \in L+\langle y, o \rangle(P)$ and also $L+\langle y, o \rangle(y) \in L+\langle y, o \rangle(S)$
(4) REPLACE, LEXICON: ... iff there is no object o such that o is grey and o is a pig and also o sings
(5) SET THEORY: iff nothing is a grey pig that sings
- 2.



3. **ex1**_u{ ϕ } ψ is true w.r.t. M iff there is exactly one object o such that ϕ is true w.r.t. $M+\langle u, o \rangle$, and ψ is also true w.r.t. $M+\langle u, o \rangle$.
4. (a) **ex1**_x{Tx} **every**_y{Cy}T(x,y)
(b) **every**_x{Cx} **ex1**_y{Ty}T(x,y)