Theory of Meaning Assignment #2

Andrew Zito

10 February 2016

1 Exercise C

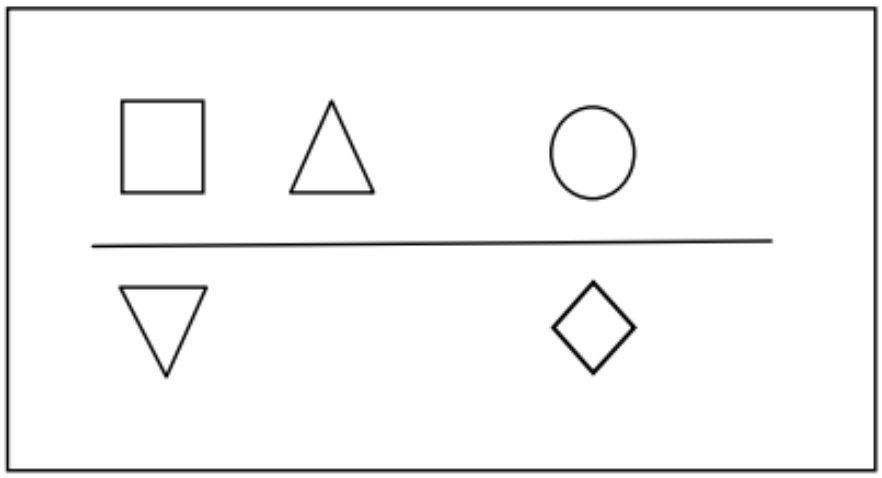
1. (i) V(s,m) = False
   (ii) V(m,g) = True
   (iii) T(s,m) = True
   (iv) V(g,m) = True
   (v) T(g,s) = False
   (vi) T(m,g) = False
2. 'T(s,m)' is true with respect to L_1 *iff* L_1(s) bears the relation L_1(T) to L_1(m)
3. (1) Atomic-2: '$\pi(\alpha,\beta)$' is true with respect to M *iff* M(α) bears the relation M(π) to M(β)
   (2) Instantiate: 'H(s,m)' is true with respect to L_2 *iff* L_2(s) bears the relation L_2(H) to L_2(m)
   (3) Replace, L_2: 'H(s,m)' is true with respect to L_2 *iff* Sam bears the relation 'hate' to Mark
   (4) Simple re-arrangement: 'H(s,m)' is true with respect to L_2 *iff* Sam hates Mark
4. 

Figure II

2 Exercise D

1. (i) ¬ T(g,s)
   (ii) V(s,s) ∧ (¬V(s,m))
2. (i) ¬A(c,d) = True
   (ii) ¬A(d,c) = True

(iii) $A(c,d) \wedge A(d,c) = \text{False}$

(iv) $\neg(A(c,d) \wedge A(d,c)) = \text{True}$

(v) $\neg A(c,d) \wedge A(d,c) = \text{True}$