

A more general objection to the metalinguistic solution

Can identity statements be analyzed metalinguistically? I.e., can:

$$(1) \quad a = b$$

be analyzed as:

$$(2) \quad 'a' \text{ and } 'b' \text{ are co-referential}$$

Objection: the notion of co-referentiality presupposes that of identity. This can be shown as follows.

Where S is a sign, let ' $Des(S)$ ' abbreviate 'the designation of S ' or 'the object designated by S '.

Then (2) amounts to:

$$(3) \quad Des('a') \text{ and } Des('b') \text{ are one and the same thing.}$$

But what does (3) mean? Here are two possibilities:

$$(4) \quad Des('a') = Des('b')$$

$$(5) \quad 'Des('a')' \text{ and } 'Des('b')' \text{ are co-referential.}$$

But (4) involves **objectual** identity. So we must choose (5). But what does (5) mean? Again, two choices:

$$(6) \quad Des('Des('a')) = Des('Des('b'))$$

$$(7) \quad 'Des('Des('a'))' \text{ and } 'Des('Des('b'))' \text{ are co-referential.}$$

But (6) involves **objectual** identity, and (7) reinvents the same analysis, *ad infinitum*.

Hence we cannot avoid objectual identity without facing an infinite regress.