6.1.3. Identity

Although all the connectives that figured in our analyses of logical form received special notation and had logical properties we studied, only one predicate will count as *logical vocabulary* in this sense. Other predicates and all unanalyzed individual terms will be, like unanalyzed component sentences, part of the *nonlogical vocabulary* which is assigned a meaning only by an interpretation.

The predicate that is part of our logical vocabulary will be referred to as *identity*. It is illustrated in the following sentences:

George Bush **is** the U.S. president The winner **was** Funny Cide

n = 3

The morning star **and** the evening star **are the same thing**.

We will refer to such sentences as *equations*; they constitute a particular kind of predication.

In our symbolic notation, we will follow the third example and use the sign = to mark identity. As English notation, we will use the word is. We will represent unanalyzed individual terms by lower case letters, so we can analyze the sentences above as follows:

```
George Bush is the U.S. president

George Bush = the U.S. president

g = p

g is p

[g: George Bush; p: the U.S. president]

The winner was Funny Cide

the winner = Funny Cide

w = f

w is f

[f: Funny Cide; w: the winner]

n = 3

n = t

n is t

[n: n; t: 3]
```

The morning star and the evening star are the same thing the morning star = the evening star

m = e m **is** e

[m: *the morning star*; e: *the evening star*]

Glen Helman 25 Aug 2005