Landon Leigh

ITSC 3153 Homework 3

8.1)

1. 1. Syntactically invalid and therefore meaningless
   2. Correctly expresses the sentence
   3. Syntactically valid but does not express the meaning of sentence
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   3. Syntactically valid but does not express the meaning of sentence
   4. Syntactically invalid and therefore meaningless

9.10)

In this riddle, that man is my son.

That man = T

So for Brothers and sisters I have none:

Father(x, y) ^ y != me -> false

Father(x, y) ^ y = me -> true

That man’s father is my father’s son:

Ǝx Ǝy Father(x, T) ^ Father(y, me) ^ Son(x, y)

Father(A, T)

Father(B, me)

Son(A, B)

This shows that “that man” is MY son.