

The Logic Book 5th Edition

Errata in Starred Exercise Answers

Chapter 7

Page

139 Replace answers to exercise set 7.4E number 2 with

- b. $(\exists x)Px \ \& \ \sim (\forall x)Px$
- d. $\sim (\exists y)Lyy$
- f. $(\forall y)Lyd$
- h. $\sim (\forall x)Px \ \& \ \sim (\forall x) \sim Px$
- j. $\sim Pa \ \& \ \sim (\exists y)Lya$

Chapter 8

Page

150 Answer to exercise 1h missing.

h. The sentence is false on the following interpretation:

- UD: Set of positive integers
- Bx: $x < 1$
- Hx: $x = -2$

The antecedent of the conditional is true on this interpretation since every positive integer is such that it is not less than 1 and is not equal to -2. That is, no value of 'x' (no positive integer) satisfies either 'Bx' or 'Hx'. And the consequent is false, precisely because there is no positive integer that is both less than 1 and equal to -2. So the material conditional is false on this interpretation.

d. The explanation should be

On this interpretation the sentence says that there is a positive integer such that if there is a negative positive integer (which there isn't) then that first positive integer is negative.

155 4.d. Replace 'Bxy: x is equals y' with 'Bxy: x equals y'