

Exercises.

7.0 Study Chapter 5.1–5.3

7.1 Exercise 5.1.1

7.2 Suppose $\mathbf{M} = (\mathbf{D}, \mathbf{I})$ is a model for \mathbf{L} , \mathbf{A} an assignment in \mathbf{M} , σ is a substitution. Define \mathbf{B} by setting for each variable $v^{\mathbf{B}} = (v\sigma)^{\mathbf{I}, \mathbf{A}}$. Then $t^{\mathbf{I}, \mathbf{B}} = (t\sigma)^{\mathbf{I}, \mathbf{A}}$ for any term t .

7.3 Exercise 5.3.1

7.4 Exercise 5.3.2

7.5 Exercise 5.3.6

Optional Exercises.

1. Exercise 5.3.4
2. Exercise 5.3.5