Table of Contents

1	Solutions to Lambda Calculi with Types	2
2	Solutions to Domain-Theoretic Foundations of Functional Programming	
	2.1 PCF and its Operational Semantics	;
	2.2 The Scott Model of PCF	
	2.3 Milner's Context Lemma	
	2.4 Logical Relations	,

Chapter 1. Solutions to Lambda Calculi with Types

Problem 1. (Exercise 3.1.13) *Exercise Statement*

Problem 2. (Exercise 4.1.20) *Exercise Statement*

Problem 3. (Exercise 4.2.8) *Exercise Statement*

Problem 4. (Exercise 5.1.16) *Exercise Statement*

Chapter 2. Solutions to Domain-Theoretic Foundations of Functional Programming

2.1 PCF and its Operational Semantics

Problem 1. (Page 14) *Problem Statement*	
Problem 2. (Page 16) *Problem Statement*	
Problem 3. (Page 16) *Problem Statement*	
Problem 4. (Page 17) *Problem Statement*	
Problem 5. (Page 17) *Problem Statement*	
Problem 6. (Page 19) *Problem Statement*	

2.2 The Scott Model of PCF

Problem 1. (Page 26) *Problem Statement*

Problem 2. (Page 26) *Problem Statement*

Problem 3. (Page 27) *Problem Statement*

Problem 4. (Page 30) *Problem Statement*

Problem 5. (Page 33) *Problem Statement*

Problem 6. (Page 34) *Problem Statement*

2.3 Milner's Context Lemma

Problem 1. (Page 44) *Problem Statement*

2.4 Logical Relations

Problem 1. (Page 52) *Problem Statement*

Problem 2. (Page 54) *Problem Statement*