

CSE 459/598 Spring 2009
Test 0

Name:

Problem 1. Let A be $\{1, 2, 3\}$, and let B be $\{a, b\}$. Answer how many of the instances of the following are there.

(a) cartesian product $A \times B$

(b) relation over $A \times B$

(c) function where the domain is A and the range is B

Problem 2. Explain the difference between relation and function.

Problem 3. Write a propositional formula F whose truth table is

p	q	r	F
f	f	f	f
f	f	t	t
f	t	f	f
f	t	t	f
t	f	f	t
t	f	t	f
t	t	f	f
t	t	t	f