

1. Which CSSE course have you taken at RHIT?

CSSE 120
 CSSE 220
 CSSE 230
 CSSE 232
 CSSE 304
 CSSE 332
 CSSE 333
 CSSE 371
 CSSE 372
 CSSE 432
 CSSE 403
 CSSE 442

2. Which CSSE courses are you currently taking at RHIT?

CSSE 373
 CSSE 375
 CSSE 376

3. Which math courses have you taken at RHIT?

MA 111
 MA 112
 MA 113
 MA 221
 MA 275
 MA 375
 MA 381

4. Which math courses are you currently taking at RHIT?

None

5. What do you have to learn in this course?

A working knowledge of formal methods.

6. What is your biggest concern about this course?

That I might have to open the disco book.

7. What are the dates of the exams for this course?

Thrusday April 15th
 Thursday May 4th
 Friday May 14th

8. Prove: $(P \text{ AND } Q) \text{ OR } (\text{NOT } P \text{ AND } R) \text{ IMPLIES } (Q \text{ OR } R)$

P	Q	R	A = P AND Q	B = NOT P AND R	A OR B	Q OR R	Whole Statement
0	0	0	0	0	0	0	1
0	0	1	0	1	1	1	1
0	1	0	0	0	0	1	1
0	1	1	0	1	1	1	1
1	0	0	0	0	0	0	1
1	0	1	0	0	0	1	1
1	1	0	1	0	1	1	1
1	1	1	1	0	1	1	1

9. Translate the following problem into symbolic logic in order to prove the result:

- All men are mortal
- Socrates is a man
- Therefore, Socrates is mortal

$\forall (m \in Men) \in Mortal$

$Socrates \in Men$

$\therefore Socrates \in Mortal$

10. The symbol "p" means "powerset". Write out the full cartesian product:

$\{a, b\} \times P\{a, b\}$

$P\{a, b\} = \{(), (a), (b), (a, b)\}$

$\{a, b\} \times P\{a, b\} = \{(), (a, a), (a, b), (b, a), (b, b)\}$

(-4) A cross product produces a set of ordered pairs containing each member of the first set paired with each member of the second set.

11. 40 Min, but I'm trying to learn vi and wrote the whole thing in it which made it take substantially longer.