Recommended Questions - Weeks 3 & 4

Directions

These are recommended questions from week 3 and 4 of the course. The questions are from section handouts, and the Rosen and Velleman textbooks. Try to solve these problems on your own before asking for help or looking at solutions. Note: solutions to section handouts are posted online and solutions to some of the book problems can be found in the back of the textbooks. Page numbers for the 7th edition of Rosen and Velleman are also listed in parentheses beside the questions.

More Predicate Logic & Inference Proofs

Section: (Section 3) Translate to Logic, Formal Proofs
Rosen: 1.6.27 - 1.6.29 (80)

More English Proofs

Rosen: 1.7.1 - 1.7.3 (91), 1.7.5 - 1.7.8 (91)

Set Proofs

Section: (Section 4) Set = Set
Rosen: 2.1.25 - 2.1.27 (126), 2.1.31 (126), 2.1.38 - 2.1.40 (126), 2.2.5 - 2.2.10 (136), 2.2.15 (136), 2.2.18 - 2.2.20 (136), 2.2.40 - 2.2.41 (137)
Velleman: 1.4.5 (42), 1.4.7 - 1.4.9 (42), 1.4.13 - 1.4.14 (43), 2.3.10 - 2.3.11 (82)

Modular Arithmetic

Section: (Section 4) Modular Arithmetic
Rosen: 4.1.6 - 4.1.8 (244), 4.1.15 - 4.1.16 (244), 4.1.24 - 4.1.25 (245), 4.1.34 - 4.1.36 (245),