

## 14 Assigned Homework

|    | A   | B                                                        | C                                                                                  |
|----|-----|----------------------------------------------------------|------------------------------------------------------------------------------------|
| 1  |     | Problems                                                 | Definitions                                                                        |
| 2  | 1.1 | 2, 4, 6, 10, 12, 14, 16, 20, 22, 28, 30 (no inverse), 34 | conditional, hypothesis, conclusion, converse, contrapositive                      |
| 3  | 1.2 | 2, 4, 6, 8                                               |                                                                                    |
| 4  | 1.3 | 6, 8, 12, 20, 22                                         | tautology, logically equivalent, satisfiable                                       |
| 5  | 1.4 | 2, 6, 8, 10, 12, 14, 22, 26, 30, 32, 38                  | counterexample                                                                     |
| 6  | 1.5 | 2, 4, 6, 10, 12, 14, 16, 20, 22, 28, 30, 36, 38, 40      |                                                                                    |
| 7  | 2.1 | 1, 5, 7, 9, 10, 12, 20, 21, 22, 24, 40, 46, 50           | N, R, Z, Z+, subset, equal sets, power set, subset, Cartesian product, cardinality |
| 8  | 2.2 | 1, 2, 14, 15(Venn), 26(Venn), 32                         | disjoint, union, intersection, complement                                          |
| 9  | 2.3 | 2-20 (even), 60                                          | function, domain, codomain, range, image, pre-image, one-to-one, onto,             |
| 10 |     |                                                          | one-to-one correspondence, composition, floor, ceiling, inverse                    |