Ximan Lin CSC400-802 Loop Assignment HW#5-1 Section 6.1

Id. Neither A S B, nor B S A.

3C. Yes. Let $Z \in T$, there exists an integer k that Z = 6k. By algebra, $Z = 6k = 3 \cdot (2k)$. Hence of real can also be divisible by 3. Therefore, $Z \in S$. Every element in T is also in S. Therefore, $T \subseteq S$.

4.a. No. For example, 5 & A but 5 & B. In set B, S should be some integers. b. Yes. Let m & B, there exists an integer S that m = 20S. By algebra, m = 5 (4S). Hence m & A. Every element of B is also an element of A. Therefore, B \(A \).

10f. B-A = 363 g. BUC = {2,3,4,6,8,93 h. BAC = {6}

166. An (BUC) = $\frac{1}{3}b$, c $(A \cap B) \cup C = \frac{1}{3}b$, c, e $(A \cap B) \cup (A \cap C) = \frac{1}{3}b$, c $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$

35 c. $\frac{A \times (B \cap C) = \frac{1}{2}(a, 2), (b, 2)}{d. (A \times B) \cap (A \times C) = \frac{1}{2}(a, 2), (b, 2)}$