姓名:曾沙目建 学号:1820221053 课程:离散数学 (第2章) 6-22: 设 S = {x E Z { / */ = x x = 300 } A={x & S ∧ x 能被3 整除} B= { x & S / x 能被5 整除3 C={xeS / x能被7整除} $|A| = \lfloor 300/3 \rfloor = 100$ $|4|AABA| = \lfloor 300/lcm(3,5) \rfloor = 20$ |B| = L300/5] = 60 |Anc| = L300/Lon(3,7)] = 14 $|C| = L_{300}/7 = 42$ $|B|C| = L_{300}/Lm(6,7) = 8$ | AMBAC| = L 300 / Lon(3, 5,7)] = 2 (1) | An Bn c 1 = 2 (2) | A n B n c | = 1880 300 - (68+12+18+2+6+22+34) = 138 (3) | An Bn Cl = 68 (4) | AUB n C | = 34 + 18 + 68 = 120 (5) ((AnBn Z)U (ANBnZ)U (ANBNC)) = 68+34+22 = 124 6-34: (A-B) U(B-A) = (An~B) U(Bn~A) = (AUB) n (AMU~A) n (~BUB) n (~BU~A) = (AUB)n ~ (ANB)

= (AUB) - (ANB)

· (AUB)- (AAB) = AUB

- AnB = ϕ

已知上式结果为 AUB

6-42: AUB = AUC N ANB = ANC => B = C