Nama: Iwan Suryaningrat NIM: 20060119120027 Kelas: TBOB L. With S1 = {2,3,5,7] 52 = {2,9,5,0,9}, and U= {1:10} compute -51 US2 => -1 S1 = U-S1 = {1.4,6,8,9,10} 751 US2 = {112, 9,5,6,8,9,109 2. 51 = 52,3,5,73 52 = {2,9,5,8,9} compute S1 x 52 and S2 x S1 => S = S1 x S2 = [(x,y); x & S1, y & S2] S = S2 x S1 = ((x,y); x E 52, y E S1) # 5= S1 × S2 = {(2,2),(2,A),(2,5),(2,8),(2,9),(3,2),(3,2), (3.5), (3.8), (3.9), (5.2), (5.4), (5.5), (5.8), (5.9), [7,2),(7,9),(7,5),(7,8),(7,9)3 * S=S2 × S1 = {(2,2), (2,3), (2,7), (2,7), (4,2), (4,3), (4,5), (4,7),(5,2),(5,3),(5,7),(8,2),(8,3),(8,5),(0,7), (9,2), (9,3), (9,5), (9,7)3 T = [2, a, 6, 83 Compute ISATI + ISUTI

3.5 = {2,5,6,83 =715 NT1 = n(5NT) = 3 -7 [2,6,83 =715UT1 = n (SUT) = 5=7 {2, a, 5, 6,83 =7 | SATI + ISUTI = 3+5 = 0/

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4. Equations (1.2) and (1.3)
    5 = {x & U, x & s}
  DeMorgan's Law
  SI US2 = SI 1 52
   51 152 = 51 U 52
 =7 U= {a,b,C,d,e,x,y}
   S1= {a.b.c.y3 S1US2 = {a.b.c.d.a.y3
   52 = { die, 43
                  51 1 52 = { 43
   51 = 9d, 2, x3
   52 = {a,b,c,x}
 + 51 US2 = U-(91 US2) = &a.b.c.d.e.x.y3 - &a.b.c.d.e.y3
           = 8 × 3
 Y SI 152 = Edicixy NEa, bicixy > Ex3
 * 51 US2 = 51 152 = Ex3
 * 51752 = U- (51752) = {a,b,c,d,e,x,43- £43
          = {a,b,c,d,e,x}
 * STUSI = 2d, C, x3 U {a,b, C, x}
           : {a.b.c.die,x3
 * 51052 = 51 U 52 = {a.b.c.de,x3
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S. Asumsi => SEU dan TEU

Asumsi Himpuran:

U= &a.b.c.de.x.y. =>

S= &a.b.c.d3

T= &d.e.xy => -T= &a.b.c.y.zy

Show that for all secs S and T. S-T= SN-T

=> S-T= &a.b.c.d3 N &a.b.c.y.z3

= &a.b.c.d3 N &a.b.c.y.z3

= &a.b.c.d3

+ S-T= SN-T= &a.b.c.d3

+ S-T= SN-T= &a.b.c.d3

MORE EXERCISE

2. $S1 = S2 \iff SIUS2 = SINS2$ Asumsi $SI dan S2 memiliti himpunan yang sama, misal {a,b,c}$ $\Rightarrow SIUS2 = SINS2$ {a,b,c} U{a,b,c} = {a,b,c} (1{a,b,c})

{a,b,c} = {a,b,c} (2)

3. Show that SIUS2-SINS2 = 52 Asumsi: SI = {a.b.c} 52 = {x,y,2}

=> SIUS2-SINS2 = S2 {a.b.c. x14,23-{a.b.c3} \(\frac{2}{2} \) \(