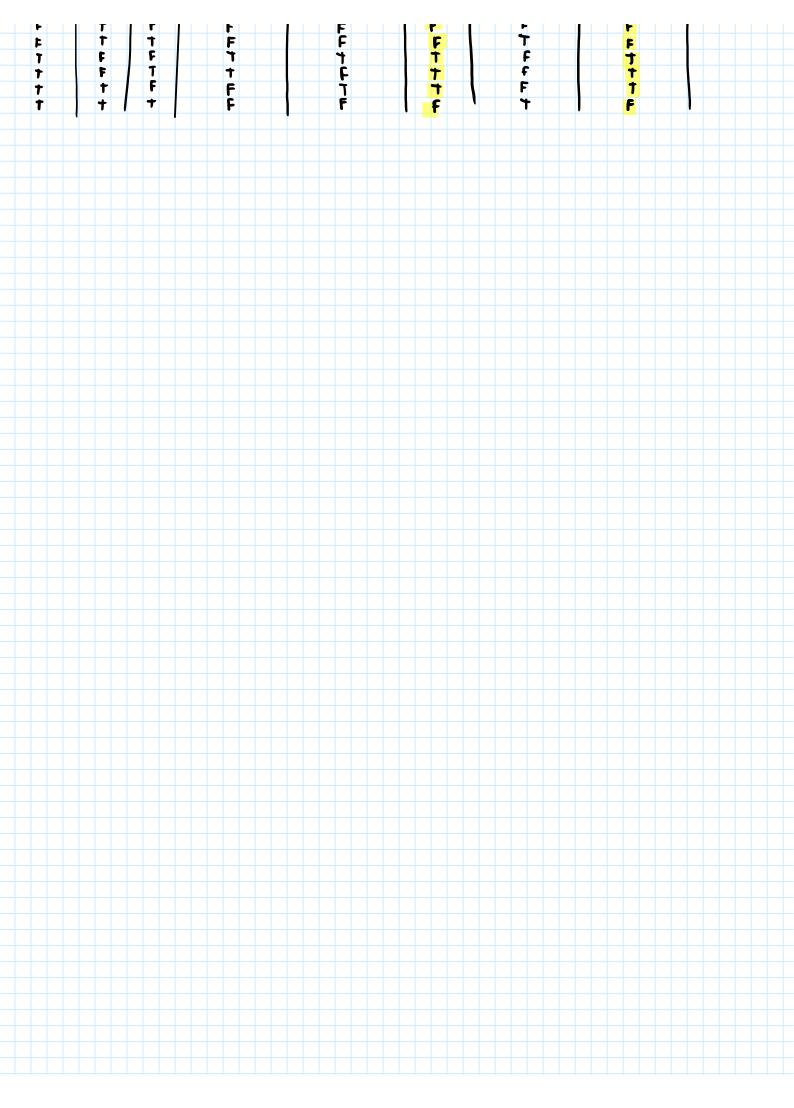
```
Martin Skatvedt, Øving
    1) 7((7P14) V (7P179) VCP14)
          = 7(7P1(qv7q)) v (P1q) Distributive law
           = 7(7P170) V (P19)
                                                                                                                 inverse law
                7 (7P) VCP19)
                                                                                                                 Identity law
                                                                                                                 Double negation
          = PV(P/19)
          EP Absorption law
 2) (PAG) U(PATI) V 7 (7PV4)) V ((VSV-1) 172)
      = [(PA9) v(PA77) v[(CV7 rVS)A74]
                                                                                                                                                              D.M.G commutative law
             [(PAq)v(PA-2)v(PA-1)]v[(Tov5)A-4] connulative law
      = [(P1(9V79))V(P171)] V[T0179]
          [(PATO) V(PATO)] V [79] Identity in
             [PV(PATI)]V[9] Identity INW
            [P] V [9] Absorption law
3) i)
=>{{\gamma, \color v\{\color \color \co
              6) PG7, 8, 90 - P( {7,9} = P( {83) : {483, 04
              c) P(Ø) : { Ø4
             d) {1,3,5} * {03 = { {1,0}, {3,0}, {5,0}}
              e) {2,4,6} x Ø = {{2},2},54},56}
              f) P({0}) × P{1})- {{0},0} } × {{1},0}
                      5) P(P(5=3))={{{23,04,524,64,504,64
```

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3) jj) Hv. 6 11:0 da blir
                          1P(A) - { {x}: x & A}! = ?
              Exscmpel A:: \1,2,3\ B:= \{xy: x \in A} = \{1\frac{1}{3},\{2\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{
         D.V.S PCA)-B= $ $ 1,2,39, $1,29, $1,39, $2,39, 89
         1PCA)-B=5 09 |PCA)- {{x3:xEA3/=2-n
4) a) False 0: {3
             b) Faise 0: 23
             0 True 1831 = 0
             d) Faise | {@31 = 1
            e) False 0: {} ,0 € {}
             1) True {x EN: x = 0 1 x 7 03: & y = 0
 5) @ AO (AUB): A
                                                                                                                                                        A:= &x, x EAY
            A D (AUB):= {x, x EA A (x EA V X EB) }
            XEA | XEB | XEAVXEBXEAN (XEAVXEB)
                                                                                                                        T
    b) A-(BOC) = (A-B)U(A-c)
         BUC: Ex: XEBUXECA
   [A-CONC): Sx, x EANT (XEBAXEC)Y
   [A-B)U (A-c): {x,(x & A / x & B) v (x & A / x & c)}
  XEA XEB | XEC| XEANXEB | XEANXEC | PV 9 | XEBNXEC | XEAN-S
```



```
6) A DB= (A-B) U CB-A)
* E A DB &D X E (A UB) - CA OB)
```

b) U: N

A:= {1,2,3,4,5,6,7,9,10}

B:: {1,3,5,8,9,10}

A-B: {2,4,6,7}

B-A: { e}

AΔB: {2,4,6,7,8}

7) x := { { 1,2,3}, {2,3}, {e, f}, {e\f}} y := { { 1,2,3, e, f}}

(x): {\delta\1,1,3\bar\1, \delta\2,3\bar\3, \delta\2,3\bar\4, \delta\2,3\bar\3, \delta\2,3\bar\4, \del

ecxny = søy

```
8)1)
                      5) A = 1 0 A = 1 A A = 3
   1) A1 1 A A2 A A3
                      6) A=1 0 A=2 0 A=3
   2) Ā[1 1 Ā 62 1 Ā[8]
                      7) A1 1 A A2 A A3
   3) A + 1 0 A + 2 0 A + 3
                     8) A=1 N A=2 N A=3
   WATO AZO AZ
  2) since it can be A; of Ai
     k fundamental products = 20
 9) (A - (B-c)) - ((A-B) - c) : Anc
  = (An (Bnz))n (AnB)nz)
  = (An (Buc)) n ((AnB)Uc)
  = CAN(BUC)) NCCAUB)UC)
  = AncBuc)n (Aubuc)
  : An (AUBUC)n(Buc)
  = ANCBUONCBUC)
  EANCCUDINCCUBI
  : An cu(BnB)
 : A N[C U @]
 Anc
16) (AUB) A (AUC) = (BAC) - A
  A DB: (A-B) U( B-A): (An B) U(BnA)
                                     (BUC) O (CUB)UB
= (AUB) N(AUG) U (CAUG) N(AUB)
                                      BUCBNOON (COB)
= (AUB) n(Ant) U (AUC) n(AnB)
: CAUB) O CANE ) U CANE) NAUC)
                                     E(BnE)n cnB)
: CAUB) O AN (CUB) O (AUC)
= (AUB) n (AUC) n A n ccub)
: AUCBNC) NA NCOUB)
```

: AUANCBOC) OCCUB)

= UN(BNC) N(EUB)

= (Bnc)nccus)

