```
DDAK - Clement Samuel Marly
1 a (A'+B) + BCD + (A+B+C')
    Bontuh dual = + jadi. dan sebalihnya (or jadi and)
    (A'B) (B+C+D) (A B C')
  6 (BC)(B+A')(B'+CD)
    (B+C)+(B.A')+(B(C+D)),
 a Fca,6,c) = ABC' + AB'C' + ABC
           = ABC' + ABC' + AB'C' + ABC Idempotent law
            = AC'(B+B') + ABC' + ABC Distributive law
            = AC'(1) + ABC'+ ABC Identity law dan Complement law
            = AC' + AB(C'+C) Distributive lan
            = AC + AB Identity law dan Complement law
            = A (c'+B) Distributive law
 6 F(A,B,C,D) = MM(0,1,4,5,6,7)
           maxterm = Mo, Mi, Ma, Ms, M6, M7
                   =(A+B+C+D)(A+B+C+D')(A+B'+C+D)(A+B'+C+D')
                  (A+B+C'+D) (A+B+C'+D')
         =((A+B+C)+(D.D'))((A+B'+C)+(D.D'))((A+B+C')+(D.D'))
           Distributive law
        = (A+B+C+O)(A+B'+C+O)(A+B+C'+O) Complement law dan
Associative law
         = (A+B+c)(A+B'+c)(A+B+c') Identity law
        = (ATB+C)(A+B+C)(A+B+C)(A+B+C') Idempotent law
        =((A+B)+(c.c')) ((A+c)+(B'B)) Distributive law
        = (A+13+0) (A+C+0) (ouplement dan Associative lan
    POS = (A+B)(A+C)
                               Identity law
                               Distributive law
    SOP = A + B'C //
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3	A FCA, D,C,D) = BD' + ACD' + AB'C + A'C'
	' = BD' (A+A')
	= ABD' + A'BD'
	= ABD'CC+C') + A'BD'CC+C')
	= ABCD' + ABC'D' + A'BC D'FA'BC'D'
	m14, m12, m6, m4,
	2 = ACD' (B+B')
	= ABCD' + AB'CD'
	= ABCD' + AB'CD'
	3 = AB'((D+D')
	= AB'CD+AB'CD'
	mil, + mio
	4: A'C' (B+B')
	= A'BC' (D+D') + A'B'C' (D+D')
	= A'BC'D+ A'BC'D' + A'B'C'D + A'B'C'D'
(1900)	m5, m4, m1, mo,
	SOP= mo, m1, m9, m5, m6, m10, m11, m12, m14
	= E (0,1,4,5,6,10,11,12,14),
	= A'B'C'D' + A'B'C'D + A'BC'D' + A'BCD' + AB'CD' + AB'CD' + AB'CD
	+ ABC'D' + ABCD',
	DOS = M2, M3, M7, M8, M9, N13, M15
	= T (2,3,7,8,9,13,15),, AAAA
	=(A+B+C'+D)(A+B+C'+D')(A+B'+C'+D')(A'+B+C+D)(A'+B+C+D')(
	(A'+B'+C+D') (A'+B'+C'+D'),
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	and antimodular of a Art of 12 A to 18 and 1
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