2.10 (3)F'(W,X,Y,Z)=(W+X+Y(Z+W))(XYZ+X(W+X))(XY)=(W+WY+X+YZ)(XYZ+XW+X)(XY)T3(a) (4)F'(A,B,C)=(A+B'+C)(ABC)(A'+B+CB) P =(ABC+AB'BC+ABC)(A'+B+BC) T3(a) =(ABC+ABC)(A'+B) =ABC(A'+B) (5)F'(P,Q,R,S)=(P'+Q+(R+S)(P+Q)+R'+S)((P+QR)+S'+R) =(P'+PR+PS+Q+QR+QS+S+R')(P+QR+R+S') T4(a) T3(a) 2) Canonical SOP Canonical PDS Canonical SOP Canonical POS F(A,B,C)=(A+B')C'+A'C -000 F(X,Y,Z)=(X+Y')(X'+Z)+ZY'0 0 0 0 0 **-0** 0 =A'ABC + ABC = ABCP5(b) 0 0 0000+++ =(W+X+YZ)(XYZ+X)(XY) $= \frac{WXY+XY+XY+XYZ}{T3(a)} = XY$ =(P'+<u>R+R'</u>+PS+Q+S)(P+S'+R) P5(a) œ =P+S'+R --00-T1(a) Y' | X+Y' | X'+Z | (X+Y')(X'+Z) 000 00--=A'8'C'+A'B'C+A'BC+AB'C'+ABC' =(A+B'+C)(A'+B+C')(A'+B'+C') =(X+Y', +Z)(X+Y', +Z',)(X', +X+Z)(X', +Y', +Z) 0-0-0-0-----A+B 3(a)(A+B')C' 0 1 1 0001  $o \vdash$ P4(b) -000 A'C 000 P4(b) -0-0 ZY' 00000 00 -0

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(A'+B'+C'+D')(A'+B+C+D')(A'+B'+C'+D')
(A'+B'+C+D')(A'+B'+C'+D)(A'+B'+C'+D')
(4) F(W,X,Y,Z)=WX'+Z'(Y'+W')+W'Z'Y'

Canonical

SOP

=A'B'C'D'+A'B'CD'+A'BC

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