let
$$X = B' + C'$$

 $Y = D' Z = A'$
Use Theorem 8D

multiply out

Eliminate 0's via therem 50

more simplification possible:

- 2. Factor ACD + A'B'D + A'BC + AC'D'
 - = A (CD + C'D') + A' (B'D+BC) (therm 8)
 - = (A+B'0+Bc)(A'+CO+C'O') (Therm 160)
 - = (A+B'D+B)(A+B'D+c)(A'+CD+C')(A+CD+D') (fun 8D) = (A+B+B')(A+B+D)(A+C+B')(A+C+D) (A'+C'+C)(A'+C'+D)(A+D'+C)(A+D'+D)
 - = (1) (A+B+D)(A+C+B) (A+C+D) (1) (A'+C'+D)(A+O'+C)(1)
 - = (A+B+D)(A+C+B1)(A+C+D)(A+C+D)(A+D+C)