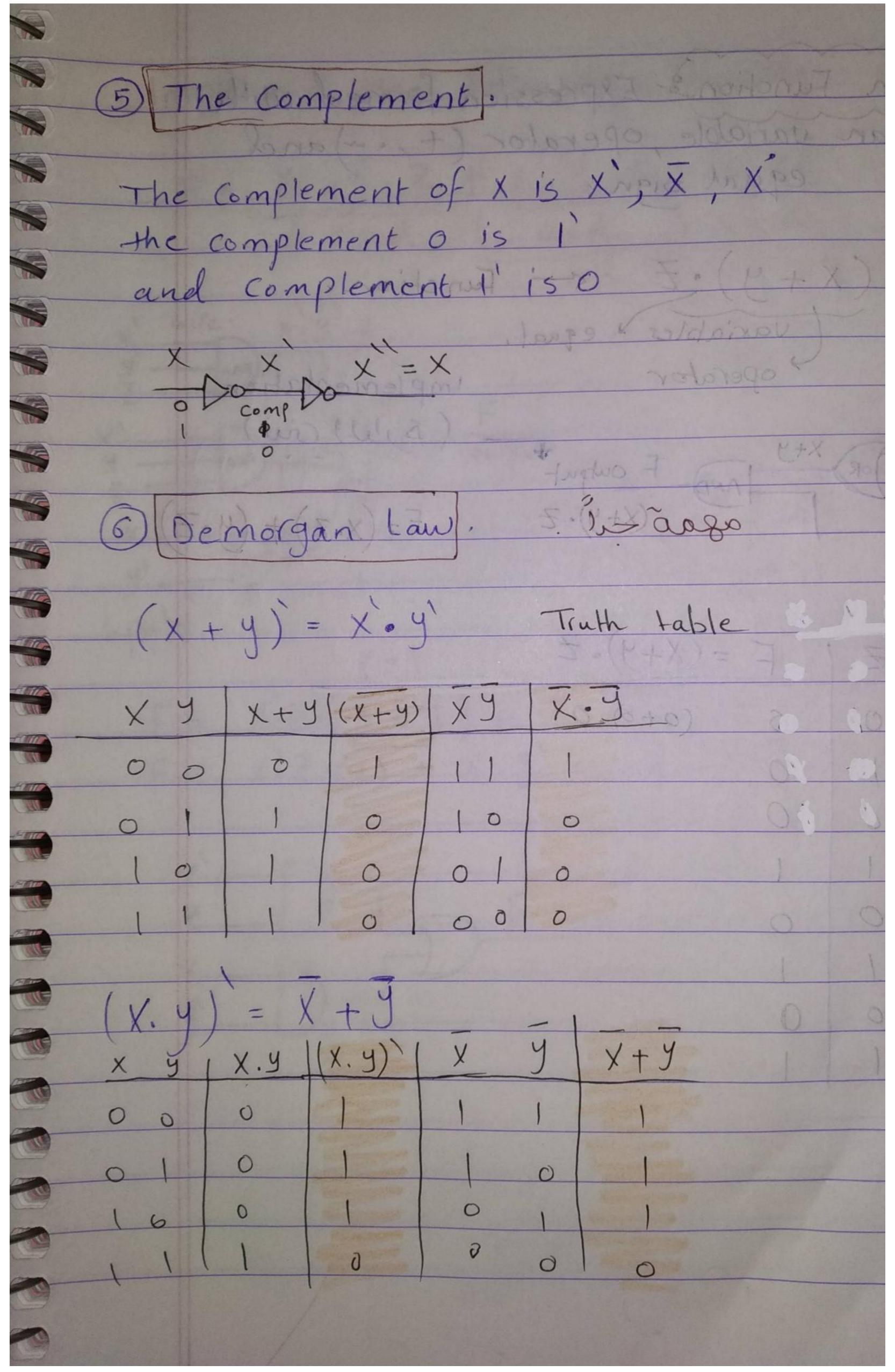
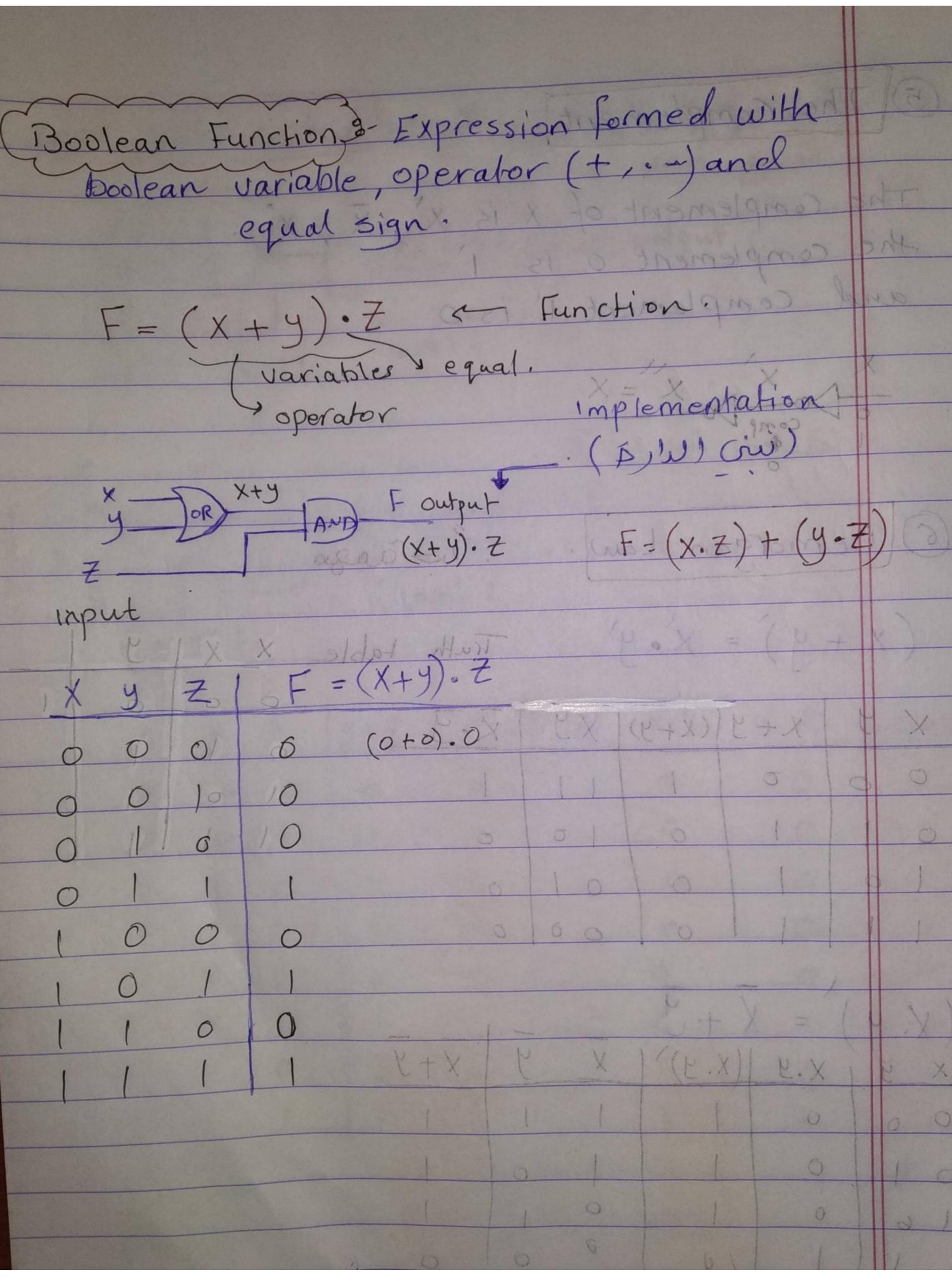
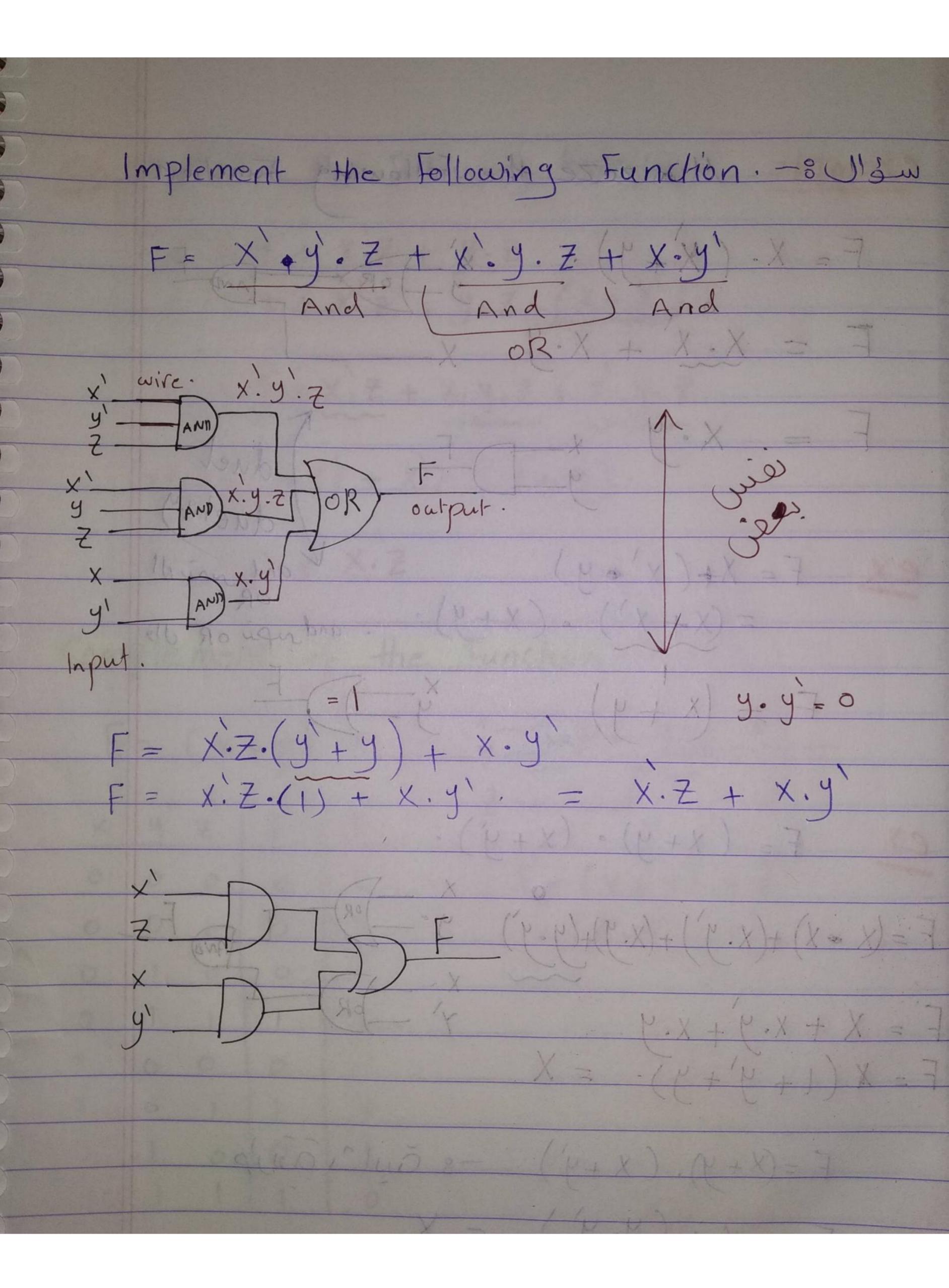
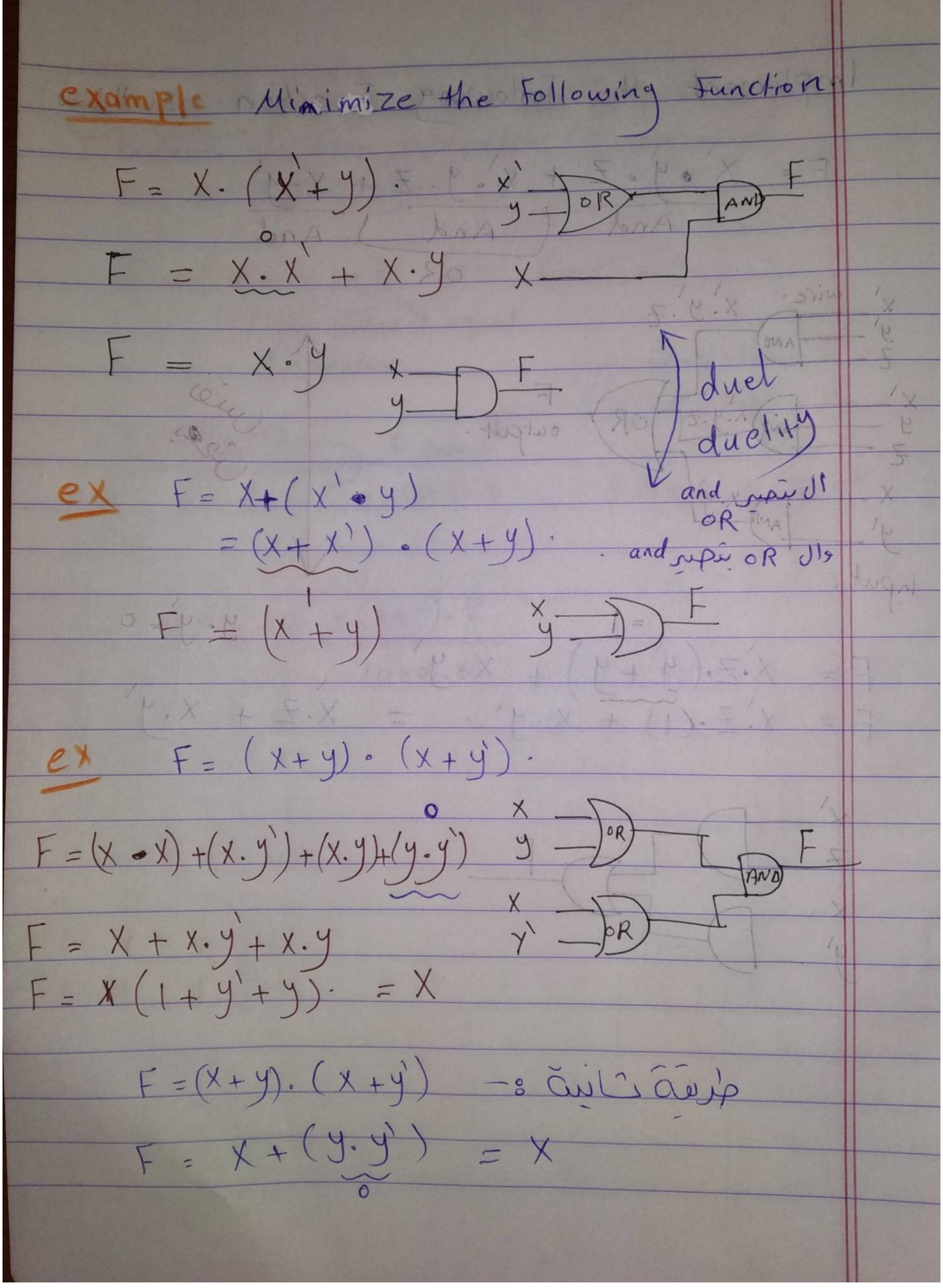


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EX Minimize the Following Function.

$$F = X \cdot y + X \cdot z + y \cdot z \cdot (X + X')$$
.

 $= X \cdot y + X \cdot z + X \cdot y \cdot z + X \cdot y \cdot z \cdot (X + X')$ .

 $= X \cdot y + X \cdot z + X \cdot y \cdot z + X \cdot y \cdot z \cdot (X + X')$ .

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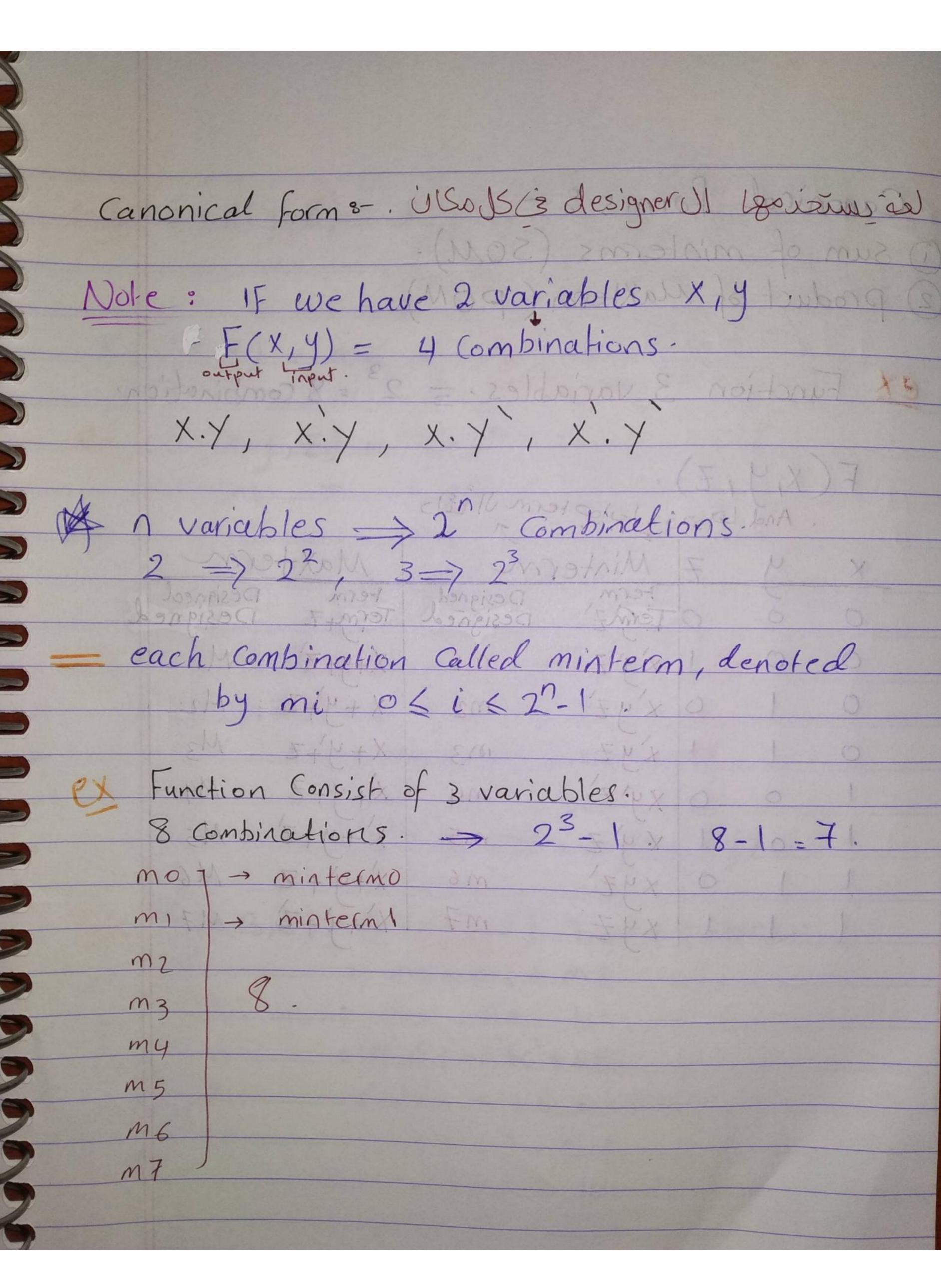
 $= X \cdot y + X \cdot z + X \cdot y \cdot z \cdot (X + X')$ .

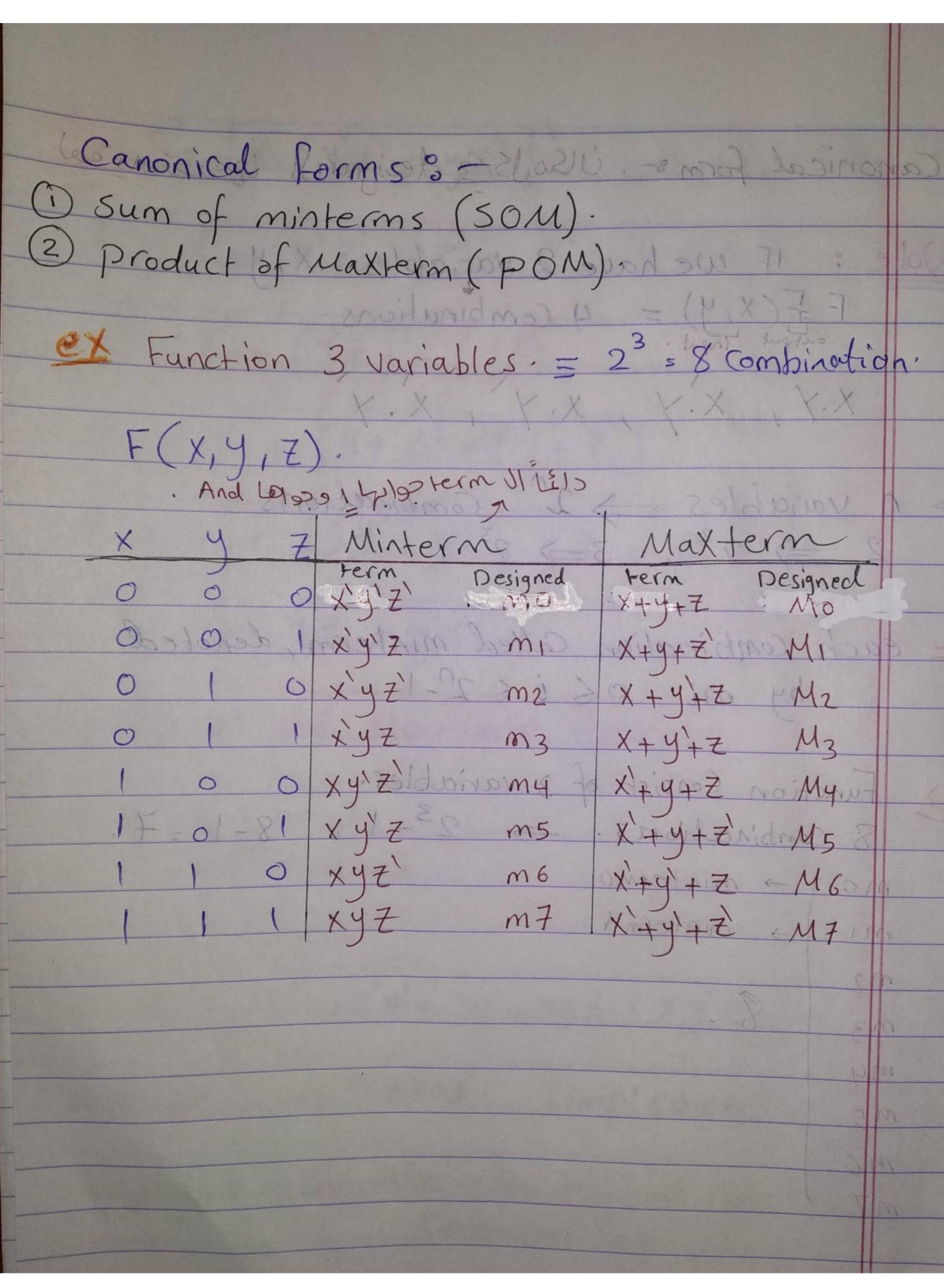
 $= X \cdot y + X \cdot z + X \cdot y \cdot z \cdot (X + X')$ .

 $= X \cdot y + X \cdot z \cdot z \cdot (X + X') \cdot z \cdot (X + X')$ .

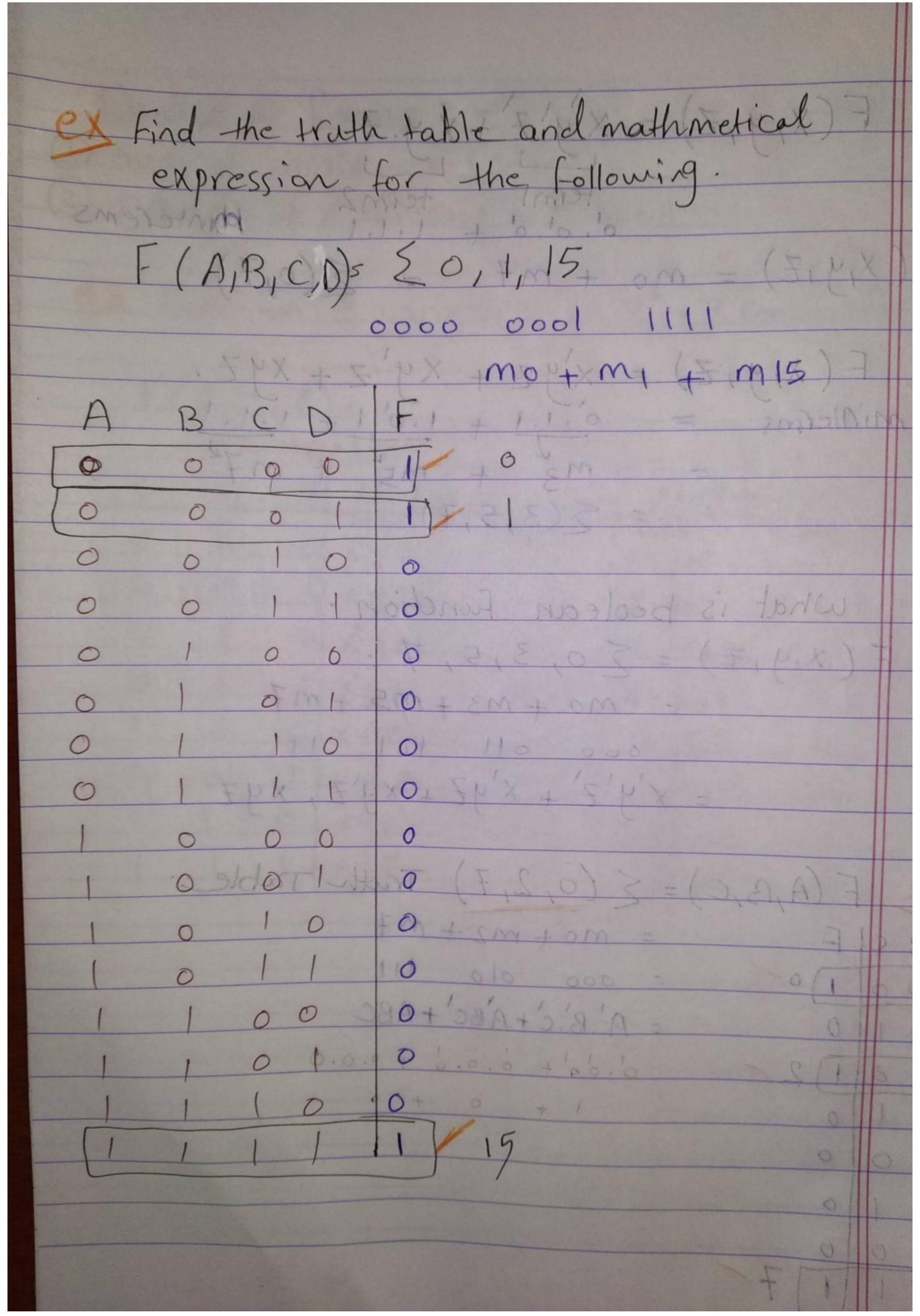
 $= X \cdot y + X \cdot z \cdot z \cdot (X + X') \cdot z \cdot (X + X')$ .

 $= X \cdot y + X \cdot z \cdot z \cdot (X + X') \cdot$ 



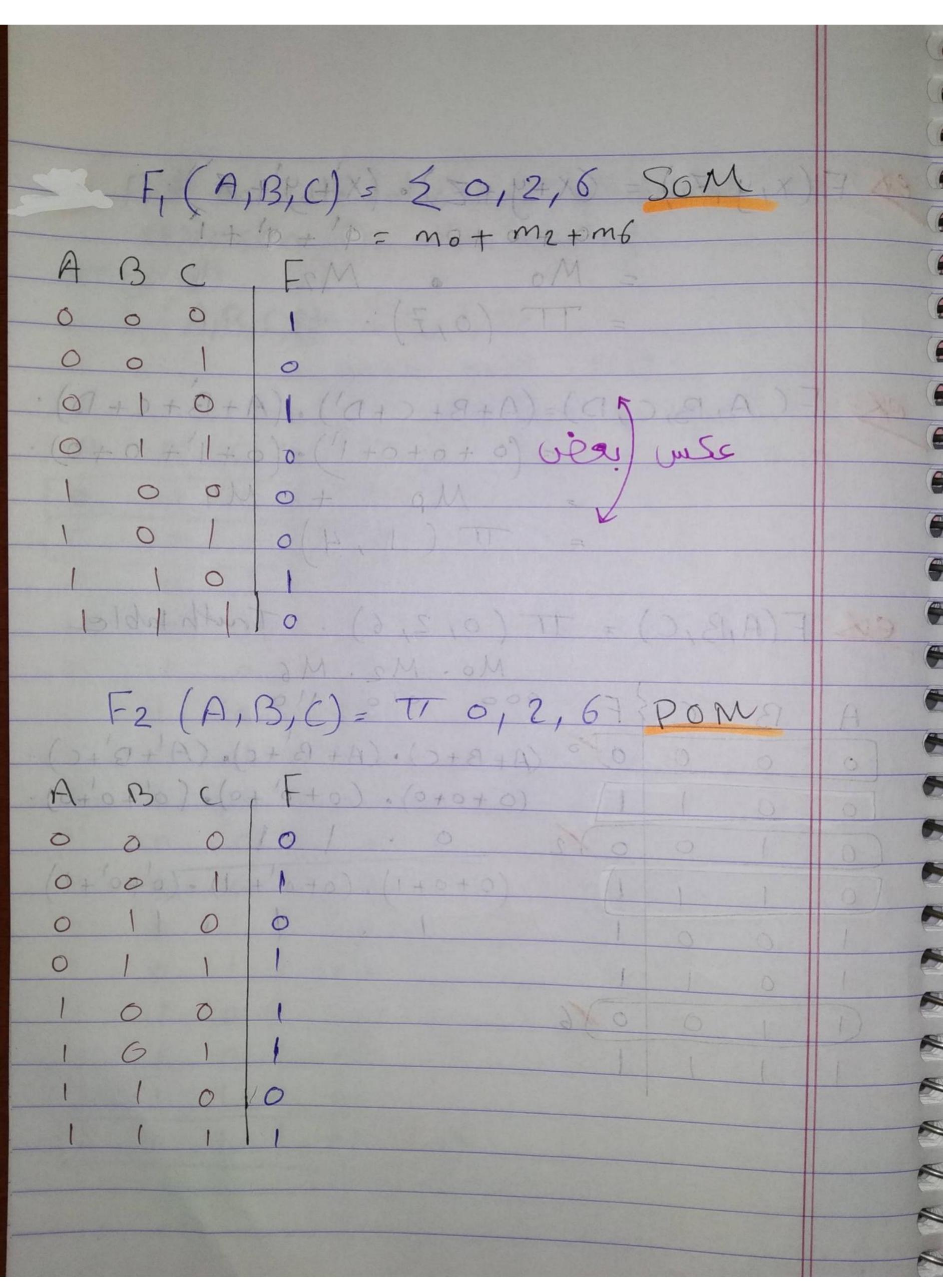


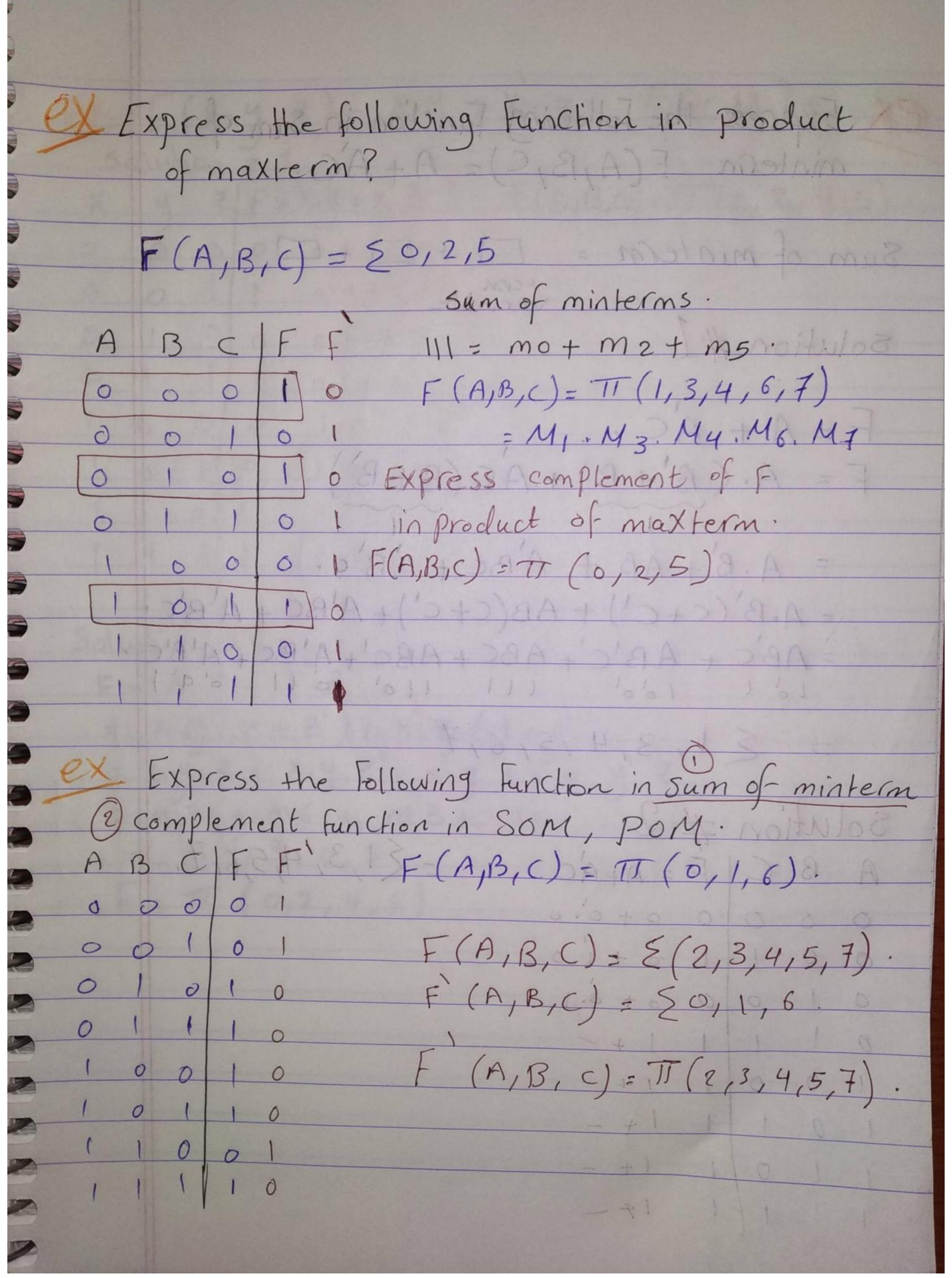
F(X,y,Z) = mo + m7. = \( \frac{2}{0},7). F(X, y, Z) = x'yZ + Xy'Z + XYZ. millerms = 0.1.1 + 1.0.1 + 1.1.1 = 5(3,5,7)1 What is boolean function. F(x,y,t) = 50,3,5,7. = mo + m3 + m5 + m7 = x'y'Z + x'yZ + xy'Z, xyZ EX F(A,B,C) = \( \langle (0,2,7) \) Truth Table. = mo + m2 + m7 - 000 00 111 = A'B'C+ABC+ABC 0.000 + 0.0.0 + 0.0.0

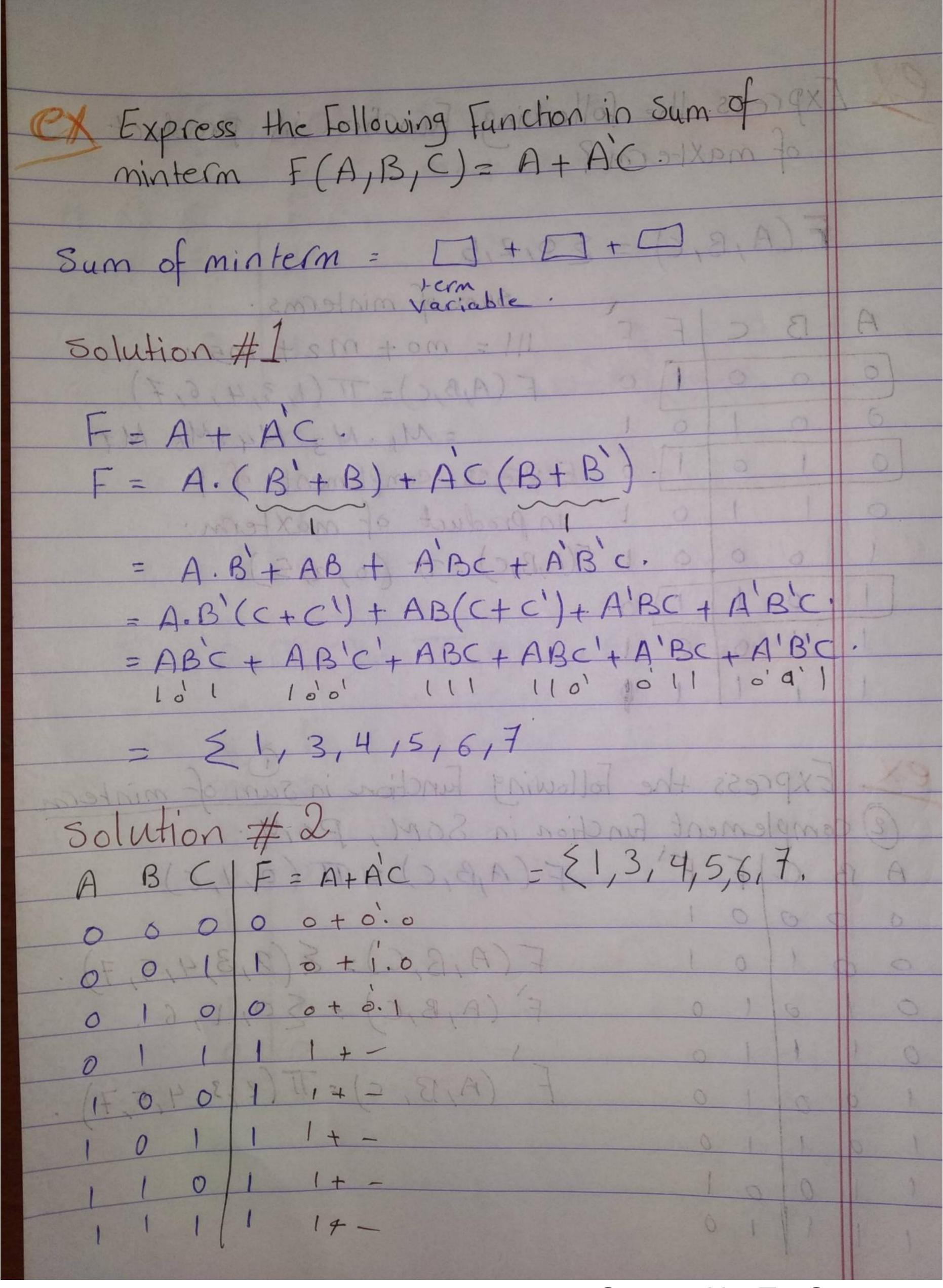


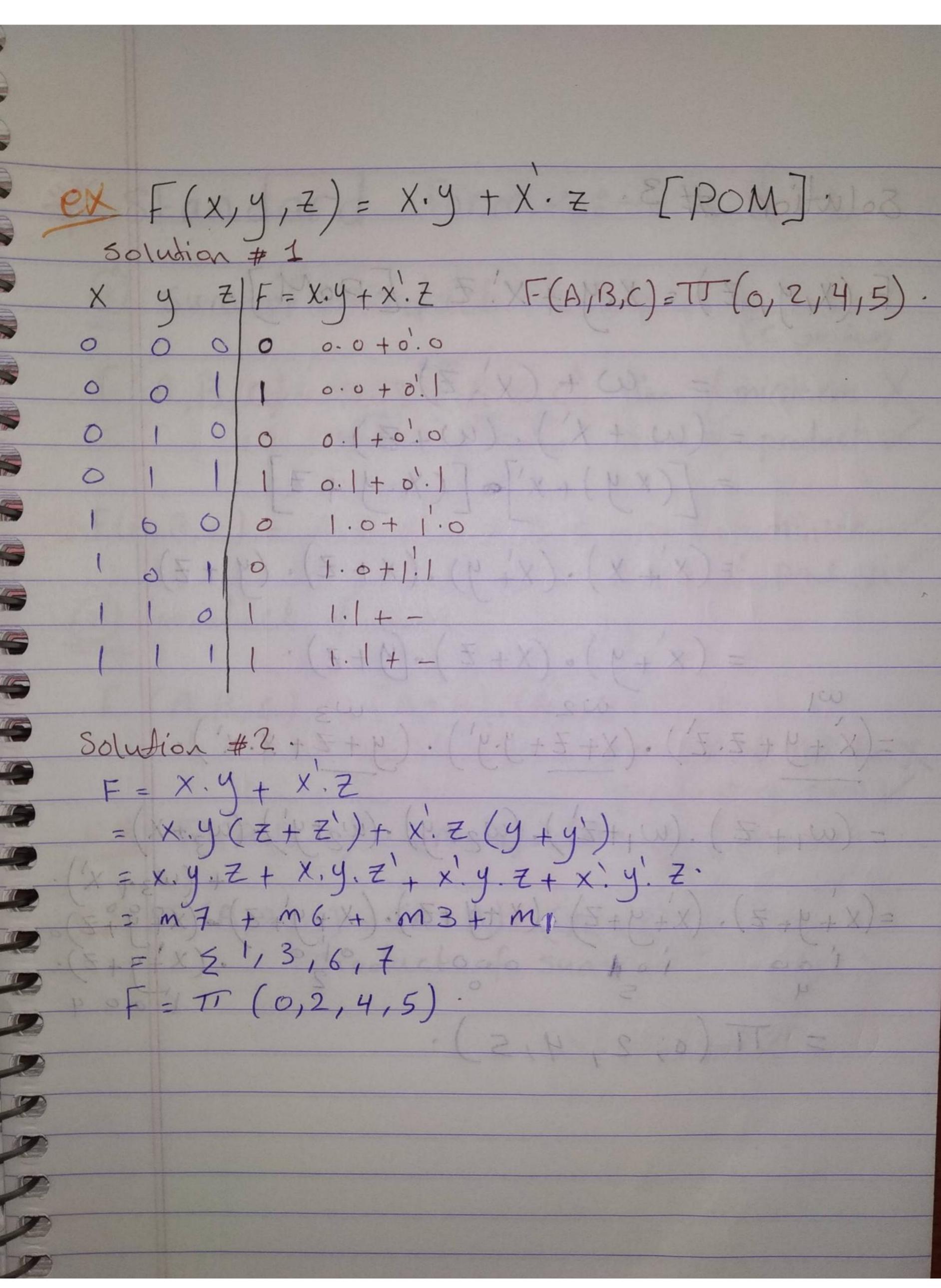
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 $EXF(X,Y,Z) = (X+Y+Z) \cdot (X+Y+Z)$ = Mo M2 = TT (0,7).EX F(A,B,C,D)=(A+B+C+D'). (A+B+C+D). = (0+0+0+1). (0+1+0+0). = TT (1, 4)ex F(A,B,C) = TT (0,2,6). Truth table Mo. M2. M6 0) (A+B+C). (A+B+C). (A+B+C). (0+0+0). (0+0+0). (0+0+0)-(0+0+1). (0+0'+1). (0+0'+1)









Solution #3. 5. X + 1. X = (5. 1. X) F(X,y, Z) = X,y + X'. Z [POM] = W+ (x', Z) .... = (w + x').(w + z)  $= [(x \cdot y) + x'] \circ [(x \cdot y + z]$ = (x+x).(x+y).(x+Z).(y+Z)  $= (x + y) \cdot (x + Z) \cdot (y + Z)$ =(X+Y+Z.Z').(X+Z+y.y').(y+Z+X.x'). = (w,+Z).(w,+Z).(w2+y).(w2+y').(w2+y').(w3+X) =(X+y+Z).(X+y+Z).(X+y+Z).(X+y+Z)= TT (0,2,4,5).

