(4) $f(x,y,z) = \bar{y} + \bar{x}\bar{z} + xz$

x	y	z	f(x,y,z)
0	0	0	1
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	0
1	1	1	1

$f(x,y,z) = \sum m(0,1,2,4,5,7) =$

$= \bar{x}\bar{y}\bar{z} + \bar{x}\bar{y}z + \bar{x}y\bar{z} + x\bar{y}\bar{z} + x\bar{y}z + xyz$

$= x(f(1,y,z)) + \bar{x}(f(0,y,z)) =$

$= x(\bar{y}\bar{z} + \bar{y}z + yz) + \bar{x}(\bar{y}\bar{z} + \bar{y}z + y\bar{z}) =$

$= y(f(x,1,z)) + \bar{y}(f(x,0,z)) =$

$= y(xz + \bar{x}\bar{z}) + \bar{y}(x(\bar{z} + z) + \bar{x}(\bar{z} + z)) =$

$= y(xz + \bar{x}\bar{z}) + \bar{y}(x + \bar{x}) =$

$y(xz + \bar{x}\bar{z}) + \bar{y} = (y + \bar{y})(xz + x\bar{z} + \bar{y}) =$

$= \underline{\bar{y} + \bar{x}\bar{z} + xz}$ □.