

## COS126 Boolean Exercise solution

(1) Truth Table

x	y	z	output
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	0

$$(2) F = x'y'z + x'yz' + x'yz + xy'z$$

$$(3) F = x'y + y'z$$