

# Quiz 1

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1.  $w, x$

$w \backslash x$	00	01	11	10
00	1	1	0	1
01	0	1	1	0
11	0	0	0	0
10	1	0	1	1

$\bar{x}\bar{z} + \bar{w}x\bar{y} + wxz + wxy$

1.

2.  $A, B, C, D$

$A \backslash B$	00	01	11	10
00	1	1	1	0
01	0	1	1	0
11	1	1	1	0
10	1	1	1	0

SOP:  $\bar{A}C + B\bar{C} + \bar{A}C\bar{D} + BCD$

POS:  $(\bar{A} + B)(\bar{A} + C + \bar{D})(A + B + \bar{C})$   
 $(A + C + \bar{D})(A + B + \bar{C})$

2.

3.  $\overline{AB}$

$\overline{AB}$	00	01	11	10
00	0	0	0	0
01	0	0	0	0
11	0	0	1	0
10	0	0	0	0

SOP  $\overline{A}\overline{C} + B\overline{C} + AB$   
POS  $(A+B)(B+\overline{C})$

3.

Sorry I have handwriting disorder I tried to make it as legible as I could