

DLD Assignment 8

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1 Boolean equation

$$F = \bar{p} q + p \bar{q} \quad (1)$$

2 K-Map

		p	
		0	1
q	0	0	1
	1	1	0

Figure 1: K-map for eq.(1)

Using the above K-map, we can find the POS form as given below

3 Product of Sums form

$$F = (p + q)(\bar{p} + \bar{q}) \quad (2)$$