

# Assignment 6

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## 1 Boolean Expression

The Boolean expression of

$$e = A.\overline{B}.\overline{C}.\overline{D} + A.B.\overline{C}.\overline{D} + \overline{A}.\overline{B}.C.\overline{D} + A.\overline{B}.C.\overline{D} + A.B.C.\overline{D} + A.\overline{B}.\overline{C}.D$$

## 2 K-map Expression (simplified)

$$e = A.\overline{B} + A.\overline{D} + \overline{B}.C$$

### 2.1 Combinational Circuit

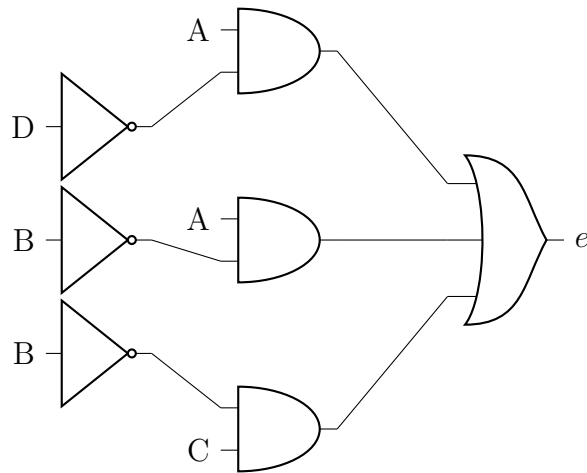


Figure 1: Circuit