

# Sayısal Sistemler Quiz 2 - 1

Canan Dal  
18253039

$$1) (\bar{A}+B)(A+B)$$

$$(A+B)\bar{A} + (A+B)B$$

$$\bar{A}A + \bar{A}B + (A+B)B$$

$$0 + \bar{A}B + (A+B)B$$

$$\bar{A}B + (A+B)B$$

$$\bar{A}B + BA + BB$$

$$\bar{A}B + BA + B$$

$$BA + B$$

$$= B$$

$$2) (A\bar{B}D + A\bar{B}\bar{D})$$

$$A\bar{B}D + A\bar{B}\bar{D}$$

$$A\bar{B}(D + \bar{D})$$

$$A\bar{B}1$$

$$= A\bar{B}$$

$$3) A\bar{C}B + \bar{A}B\bar{C}D$$

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

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

$$= B\bar{C}D + B\bar{C}A$$

$$4) \overline{(\bar{A} + C)(B + \bar{D})}$$

$$\overline{\bar{A} + C} + \overline{B + \bar{D}}$$

$$\bar{\bar{A}}\bar{C} + \bar{B}\bar{\bar{D}}$$

$$AC + \bar{B}\bar{D}$$

$$AC + \bar{B}\bar{D}$$

$$= AC + \bar{B}\bar{D}$$