

# Simplification using Boolean Algebra

- Example :-

- $AB + A(B+C) + B(B+C)$

- Sol:

- $AB + AB + AC + BB + BC$

- $AB + AC + B + BC$

- $AB + AC + B$

- $B + AC$

- ..... HOME WORK .....

- Example :-

- $A \overline{B} C + A \overline{B} \overline{C} + A B \overline{C} + A B C + A \overline{B} C$

- $A \overline{B} C (BD + CDE) + A C$

- Simplify the following Boolean expression :

- $\overline{A} B + A \overline{C} + A \overline{B} \overline{C}$

- Sol:

- $(\overline{A} B) (\overline{A} C) + A \overline{B} \overline{C}$

- $(\overline{A} + B) (\overline{A} + C) + A \overline{B} \overline{C}$

- $\overline{A} \overline{A} + \overline{A} C + A \overline{B} + B \overline{C} + A \overline{B} \overline{C}$

- $\overline{A} + \overline{A} C + A \overline{B} + B \overline{C}$

- $\overline{A} + A \overline{B} + B \overline{C}$

- $\overline{A} + B \overline{C}$