

## Digital Electronics N4 Boolean Tut

### Question 1

Simplify the Boolean expressions below by making use of Boolean algebra:

$$(1) \quad \overline{(\overline{A+AB+\overline{AC}}) + (\overline{AB+BC+A})} \quad (4)$$

$$(11) \quad \overline{(\overline{AB+A\overline{BC}})(\overline{AB+A\overline{BC}})(\overline{AB+A\overline{BC}})} \quad (5)$$

### Question 2

Simplify the Boolean expressions below by means of Boolean algebra:

$$(i) \quad \overline{(\overline{ABC+AC})(\overline{AB+A\overline{BC}})(\overline{AC+A\overline{BC}})} = 1 \quad (4)$$

$$(ii) \quad A\overline{B}\overline{C} + \overline{A}\overline{B}\overline{C} + \overline{A}B\overline{C} + \overline{A}\overline{B}C = 1 \quad (4)$$

# Study Guide N4 Digital Electronics

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