

Digital Electronics

Answer Sheet 4

1 $A + B = \overline{\overline{A} \cdot \overline{B}}$

2 $\overline{\overline{\overline{A \cdot B} \cdot \overline{\overline{C \cdot D}}}}$

3 a) $= \overline{\overline{(A + B) + C}} = \overline{(A + B + C)}$

b) $= A \cdot B + A \cdot C + C + \overline{A} \cdot B \cdot \overline{C} = A \cdot B + C + \overline{A} \cdot B = B \cdot (A + \overline{A}) + C = B + C$

c) $= A \cdot \overline{A} \cdot B + \overline{B} \cdot \overline{A} \cdot B = 0$

d) $= A \cdot (\overline{B} \cdot C + \overline{C}) + B \cdot C = A \cdot (\overline{B} + \overline{C}) + B \cdot C = A \cdot (\overline{B \cdot C}) + B \cdot C = A + B \cdot C$

4.

$$\begin{aligned} \overline{A}C + A\overline{C} + BC &= \overline{C}(A + \overline{A}) + BC \\ &= \overline{C} + BC \\ &= \overline{C} \cdot \overline{B} + \overline{C}B + BC \\ &= \overline{C} \cdot \overline{B} + \overline{C}B + \overline{C}B + BC \\ &= \overline{C}(\overline{B} + B) + B(\overline{C} + C) \\ &= \overline{C} + B \end{aligned}$$

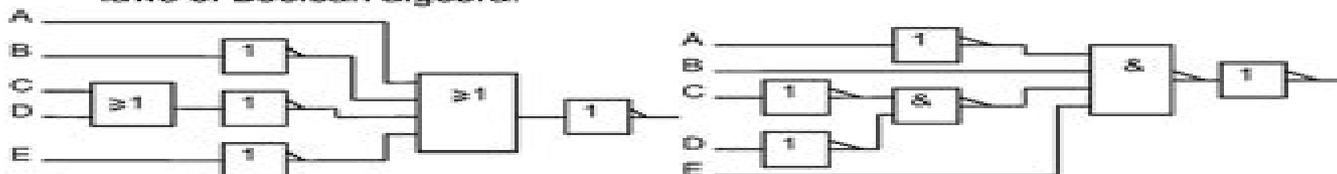
of you might be able to see that $\overline{C} + BC = \overline{C} + B$ directly or from a truth table.

5. To show this, we need to simplify the logic, using Boolean Algebra, so as to write the expression in the form XYZ where X, Y and Z are each one of the variables or its complement.

$$\begin{aligned} \overline{A(\overline{B} + A\overline{C})} &= A \cdot B \cdot \overline{A} \cdot \overline{C} \\ &= AB(\overline{A} + C) \\ &= \overline{A}A + ABC \\ &= ABC \end{aligned}$$

Always false for any A.

6. The first thing to notice is that the two AND gates can be merged to form a four input AND gate. The solutions are then obtained by shuffling INVERTORS so that pairs of INVERTORS cancel and by applying (in a schematical sense) the laws of Boolean algebra.



(a)

(b)

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Y Pai



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