

Digital Electronics

Answer Sheet 4

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

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

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.

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

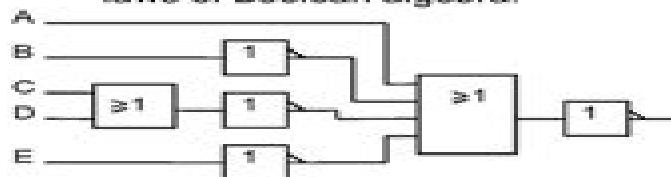
of you might be able to see that $\overline{C} + BC = \overline{C} + B$ directly or from a truth table.

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.

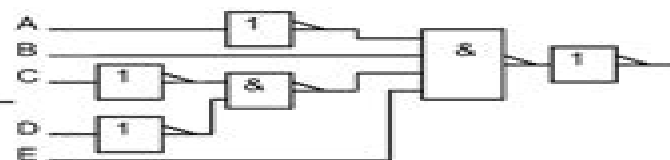
$$\begin{aligned} \overline{A(\overline{B} + A \overline{C})} &= A \cdot B \cdot \overline{A} \cdot \overline{C} \\ &= AB(\overline{A} + C) \\ &= \overline{A} \overline{A} + ABC \\ &= ABC \end{aligned}$$

Always false for any A. $\swarrow$

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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Myke Predko



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Digital Electronics Demystified

Myke Predko, 2005-01-11 The field of teaching digital electronics has not changed significantly in the past 20 years Many of the same books that first became available in the late 1970s and early 1980s are still being used as basic texts In the 20 years since these were written the basic rules have not changed but they do not provide strong links to modern electronics including CMOS logic Programmable Logic Devices and microprocessor microcontroller interfacing Courses teaching introductory digital electronics will fill in the missing areas of information for students but neither the instructors nor students have resources to explain modern technology and interfaces One assumption made by all the standard texts is that

experimenting with digital electronics cannot be done easily in the proposed book digital guru Myke Predko will show how readers can set up their own apparatus for experimenting with digital electronics for less than 10

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