1- What is the binary number before 0110010010_2 in the counting sequence?

Answer:

2- How many binary bits are necessary to represent 1455 different numbers?

Answer:

3- How many different numbers can be obtained using 7 binary bits?

Answer:

4- What's the largest decimal value that can be represented using twelve binary bits?

Answer:

5- What is the minimum number of binary bytes required to represent a count of 210_{10}?

Answer:

6- The decimal equivalent of $E2E_{16}$ is:

Answer:

7- How many bits are required to code each digit using the BCD numbering system?

Answer:

8- The binary equivalent of 343 is:

Answer:

9- The decimal equivalent of 1000000001 is:

Answer:

10- Convert 00001100000011_2 to its decimal equivalent using the sum-of-weights position method?

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11- What's the decimal equivalent of $A74C_{16}$?

Answer:

12- What's the hexadecimal equivalent of 66286_{10} is:

Answer:

13- What's the hexadecimal equivalent for 11011111010_2 is?

Answer:

14- How many BCD bits & how many straight-binary bits would be req
decimal number 643?

Answer:

15- Convert the BCD number 0011011101011001 to its decimal eq

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16- The truth table shown describes what kind of gate?

Answer:

17- What is the output expression for this logic?

Answer:

C

18- Apply DeMorgans theorem: $\overline{(A\,\overline{B})\,(\overline{C+D})}$

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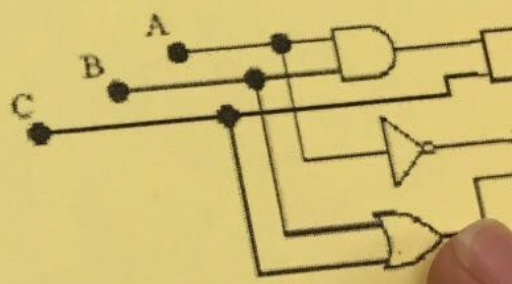
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

Answer:

17- What is the output expression for this logic?

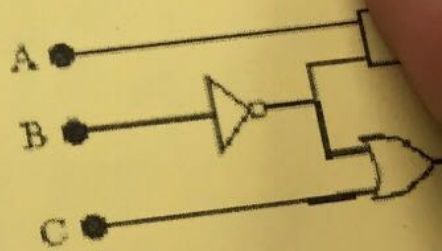


Answer:

18- Apply DeMorgans theorem: $\overline{\overline{(A\,\overline{B})}\,\overline{(C+D)}}$.

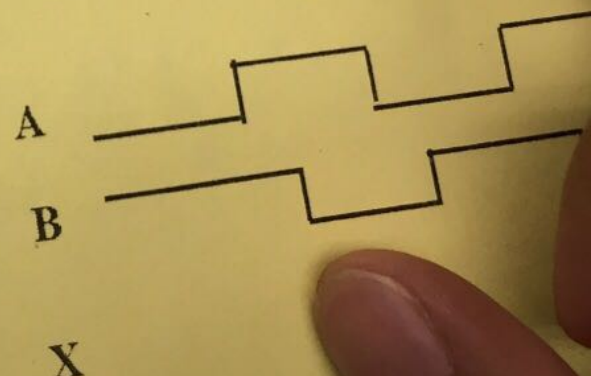
Answer:

19- Solve for Y if A=0, B=1, & C=0:



Answer:

20- Get the signal using NOR gate:



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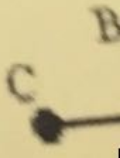

Answer:

18- Apply DeMorgans theorem: $\overline{\overline{(A\,\overline{B})}\,\overline{(C+D)}}$.