## Practical Sessio程婚代写代做 CS编程辅导

## Objectives

1. To draw the I



3. To find Boole



## Tasks

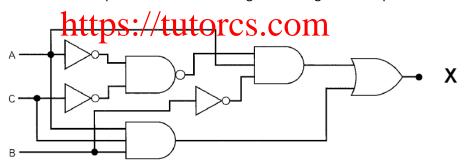
1. Draw the logic gate circuit corresponding to the following Boolean expression

2. Write the Boolean expression of the following circuit diagram. Set up the truth table a SS1gnment Project Exam Help



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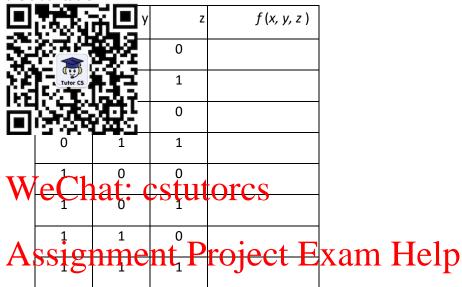
3. Write the Boolean expression of the following circuit diagram. Set up the truth table



4. Compare X of exercise 2 and exercise 3. Keep in mind that the Boolean expression of X in exercise 3 can be simplified to the one of exercise 2.

5. Find the Boolean expression of function f(x,y,z) with three inputs and one output; f(x,y,z) produces 1 when at least two of the inputs and one output; f(x,y,z)

Step1: set up the truth table



Step2: find all the prolean sub-expressions only with (xyz)-1, e.g. when (x=0,y=1,z=1). The sub-expression is generated by inverting the inputs with zero and keeping the rest as they are, e.g., the subexpression for (x=0,y=1,z=1) is x'yz.

Step3: f(x,y,z) Square by adding all the sub-expressions found in step2.

Step4 (this step is optional and will not be assessed): Simplify f(x,y,z) using Boolean algebra. For those who are interested in light of the property for learning the proper

6. Revisit and study the 4-bit ripple carry adder shown in the slides. Draw the circuit for an 8-bit ripple carry adder