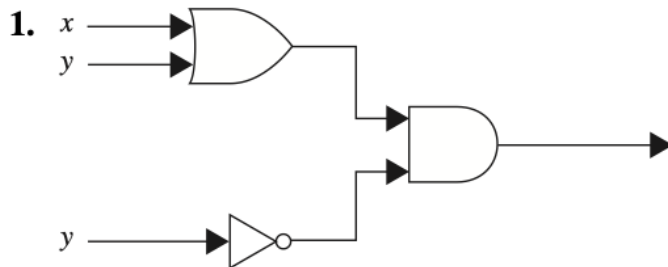CHAPTER 12.3 Q1, 3

Ping Ju

1. PROBLEM
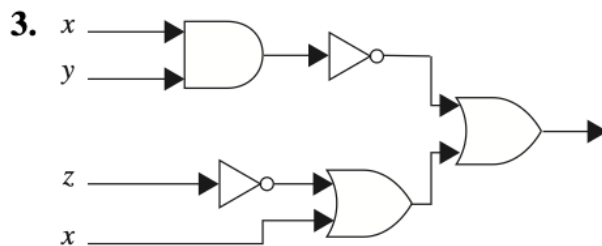
In Exercises 1–5 find the output of the given circuit.

The output of the OR gate at the top is $x + y$.

The top and $\bar{y}$ are the inputs to the final AND gate.

The answer => the output of the circuit is $(x + y)\ \bar{y}$.

3. Problem:

The final output is an OR with two inputs.

The first of these inputs is the result of inverting xy, and the second is $\bar{z} + x$.

The answer is => $(\overline{xy}) + (\bar{z} + x)$.