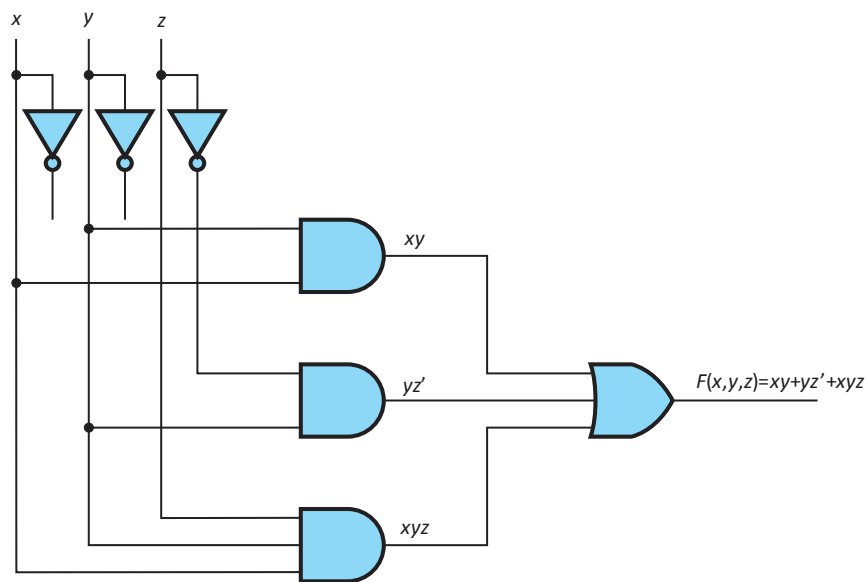


FIGURE 3.18 Logic Diagram for $F(x, y, z) = x + y'z$

- Each term corresponds to an AND gate. In FIGURE 3.18, there are two terms x and $y'z$. Only one of the terms, $x'y$, requires an AND gate.
- The sum is represented by a single or gate having as many inputs as there are terms in the Boolean expression.



- Each term corresponds to an AND gate. In the figure above, there are three terms xy , yz' , and xyz . All three terms require an AND gate.
- The sum is represented by a single or gate having as many inputs as there are terms in the Boolean expression.