## BINARY ADDITION

$$\begin{array}{c|cccc}
 & & & 11 \\
28 + & & & 11100 + \\
 \hline
 & 22 & & & 10110 \\
\hline
 & 50 & & & 110010
\end{array}$$

$$A \quad B \qquad \stackrel{\text{fire}}{\searrow} \stackrel{\text{gs}}{\searrow}$$

$$0 + 0 = 0 \quad 0$$

$$0 + 1 = 0 \quad 1$$

$$1 + 0 = 0 \quad 1$$

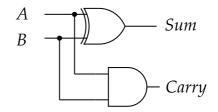
$$1 + 1 = 1 \quad 0$$

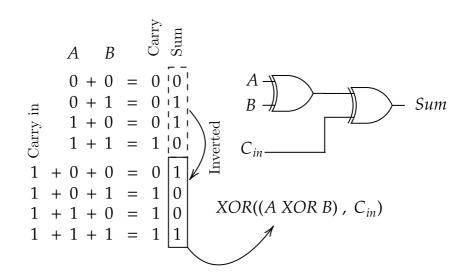
$$1 + 0 + 1 = 1 \quad 0$$

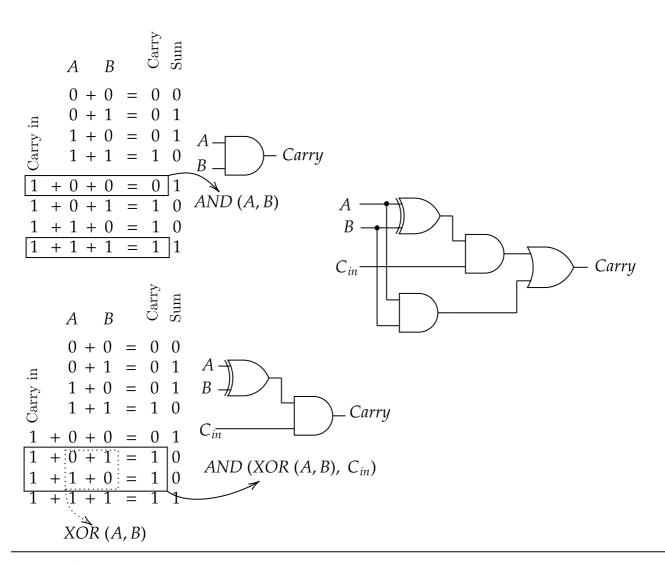
$$1 + 1 + 0 = 1 \quad 0$$

$$1 + 1 + 1 = 1 \quad 1$$

## Half Adder







## Full Adder

