Några viktiga satser inom Boolesk algebra.
1.

$$
\begin{aligned}
& x+y=y+x \\
& x \cdot y=y \cdot x
\end{aligned}
$$

Kommutativa lagarna
2.

$$
\begin{aligned}
& x \cdot(y+z)=x \cdot y+x \cdot z \\
& x+(y \cdot z)=(x+y) \cdot(x+z)
\end{aligned}
$$

Distributiva lagarna
3.

$$
\begin{aligned}
& x+0=x \\
& x \cdot 1=x
\end{aligned}
$$

4. 

$$
\begin{aligned}
& x+x^{\prime}=1 \\
& x \cdot x^{\prime}=0
\end{aligned}
$$

5. 

$$
\begin{aligned}
& x+1=1 \\
& x \cdot 0=0
\end{aligned}
$$

6. 

$$
\begin{aligned}
& x+x=x \\
& x \cdot x=x
\end{aligned}
$$

7. 

$$
\begin{aligned}
& x+(y+z)=(x+y)+z \\
& x \cdot(y \cdot z)=(x \cdot y) \cdot z
\end{aligned}
$$

Associativa lagarna
8.

$$
\begin{aligned}
& (x+y)^{\prime}=x^{\prime} \cdot y^{\prime} \\
& (x \cdot y)^{\prime}=x^{\prime}+y^{\prime}
\end{aligned}
$$

De Morgans lagar
9. $\left(x^{\prime}\right)$ ' $=x$

