

Complement Law

A AND NOT **A** equals 0

$$\mathbf{A} * \mathbf{!A} = \mathbf{0}$$

if $A = 0$

$$\mathbf{0} * \mathbf{!0} = \mathbf{0}$$

if $A = 1$

$$\mathbf{1} * \mathbf{!1} = \mathbf{0}$$