

Postulates and Theorems of Boolean Algebra

$$x + 0 = x$$

$$x + x' = 1$$

$$x + x = x$$

$$x + 1 = 1$$

$$(x')' = x$$

$$x + y = y + x$$

$$x + (y + z) = (x + y) + z$$

$$x(y + z) = xy + xz$$

$$(x + y)' = x'y'$$

$$x + xy = x$$

$$x \cdot 1 = x$$

$$x \cdot x' = 0$$

$$x \cdot x = x$$

$$x \cdot 0 = 0$$

$$xy = yx$$

$$x(yz) = (xy)z$$

$$x + yz = (x + y)(x + z)$$

$$(xy)' = x' + y'$$

$$x(x + y) = x$$
