Lecture 2 Boolean Algebro. (1) Commutativity (2) Associativity 6 Distributivily

$$\frac{D:}{DA + (B \times c)}$$

$$= (A + B) \times (A + c)$$

Ax (B+c)

 $= (A \times B) + (A \times C)$

I want eilter a male domesticale est when is white or high Oz å female Cet undomesticated ampthenj set whele-

 $\{M \times D \times (N + 6)\}$ FXUDX(Q+0+B)

N, Q, O, B

Universal! 1+X= 1xx =

$$= \chi \chi 1 + \chi \chi \chi$$

$$\chi \cdot (1 + \chi)$$

$$\mathcal{X} \cdot (\mathbf{x} + \mathbf{y})$$

$$= \mathbf{x} \cdot \mathbf{x} + \mathbf{x} \cdot \mathbf{y}$$

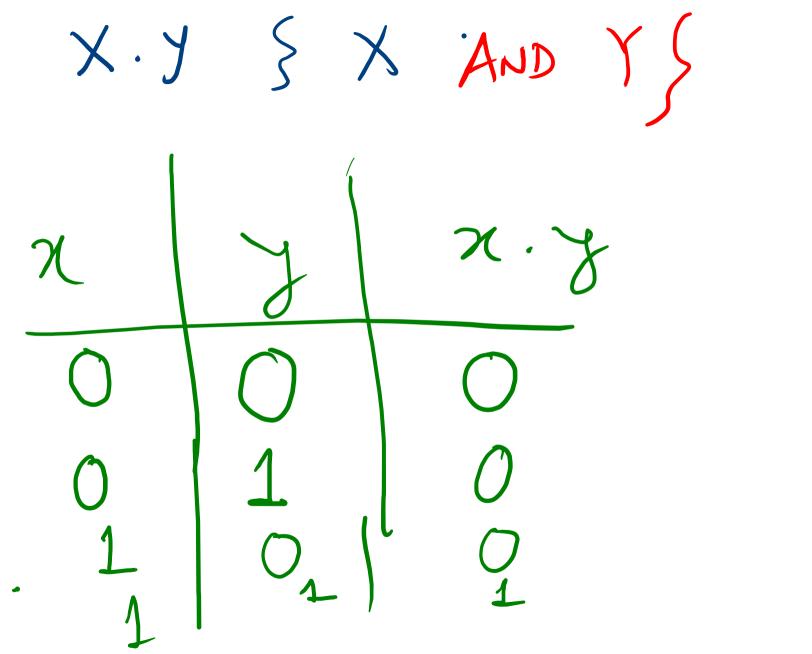
$$= (\mathbf{x} + \mathbf{x} \cdot \mathbf{y})$$

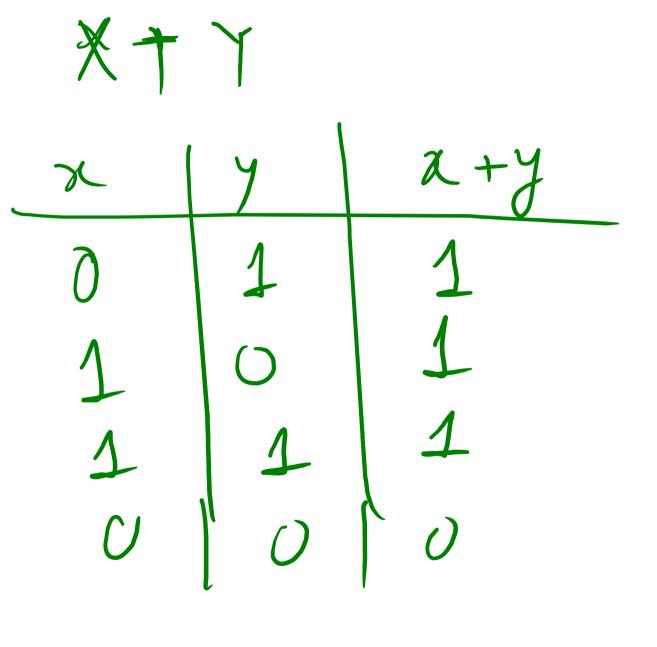
$$= \mathbf{x}$$

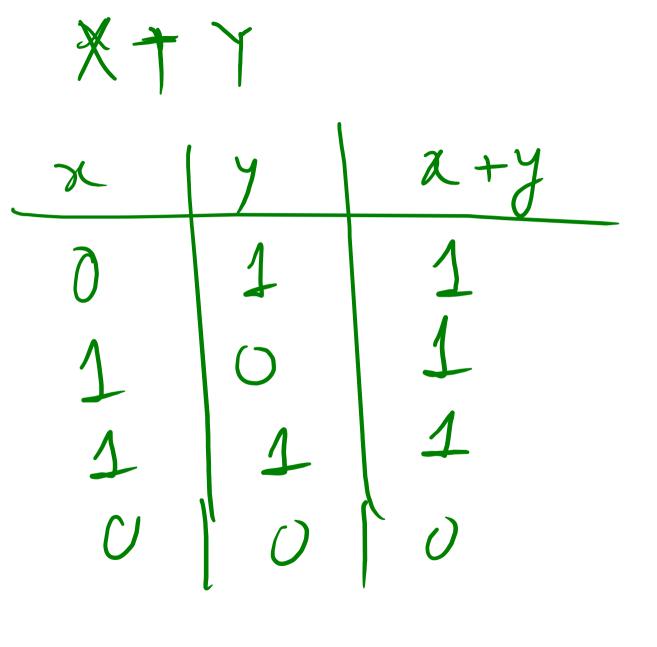
$$(\overline{x})$$
= $(1-x)$
= $1-(1-x)$
= x

Truth Jake

X, Y, \alpha, \beta, \beta, \beta, \lambda --







$$\begin{array}{cccc}
X + 0 &= & \times \\
X \times 0 &= & 0
\end{array}$$

$$\begin{array}{cccc}
X^2 &= & \times \\
X + X &= & \times
\end{array}$$

$$X + X &= & \times
\end{array}$$

