A & C XY $X = (\overline{A} \cdot \overline{B} \cdot \overline{C}) + (\overline{A} \cdot \overline{B} \cdot C) + (\overline{A} \cdot \overline{B} \cdot \overline{C})$ 0 0 0 $Y = (\widehat{A} \cdot \widehat{B} \cdot \widehat{C}) + (\widehat{A} \cdot \widehat{B} \cdot ()) + (\widehat{A} \cdot B \cdot \widehat{C})$ 0 1 076 1 1 0 0 + (A·B·C) + (A·B·C) 2 1 0 0 707 00 770 07 (=) $X = B \cdot ((\overline{A} \cdot \overline{C}) + (\overline{A} \cdot (\overline{C}) + (\overline{A} \cdot \overline{C}))$ distribution law 0 () 7 7 7 = B. (A. (E+C) + (A. E) distribution law = B. (A.7 + A.T) inverse law = B . (A + A . C) destity law

(=)
$$Y = (\overline{A} \cdot \overline{B}) \cdot (\overline{C} + (\underline{C}) + (\overline{A} \cdot \overline{B} \cdot \overline{C}) + (\overline{A} \cdot \overline{C}) \cdot \overline{B} \cdot \overline{B})$$

 $= (\overline{A} \cdot \overline{B}) \cdot 7 + (\overline{A} \cdot \overline{B} \cdot \overline{C}) + (\overline{A} \cdot \overline{C}) \cdot 7$ someone law
 $= \overline{A} \cdot \overline{B} + \overline{A} \cdot \overline{B} \cdot \overline{C} + \overline{A} \cdot \overline{C}$ dentity law