D/3 3) Mongemba;  $(g)(x_1 \wedge \overline{x_1}) \wedge x_2 \geq (x_1 \wedge \overline{x_1})$ (1) X1 VX2 = X1/X2  $(9)(x_1/\overline{x_1})Vx_2zx_2$  $(2) \overline{\chi_1 \wedge \chi_2} = \overline{\chi_1} \vee \overline{\chi_2}$ (1D) XIVX2 = XIVX1  $(3) \overline{\chi} \ge X$  $(4) (x_1 \cup x_2) \wedge x_3 = (x_1 \wedge x_3) \vee (x_2 \wedge x_3)$  $(1)) (x_1 \sqrt{x_1}) / x_2 < x_2$  $(2) (X_1 \vee X_2) \vee X_3 = X_1 \vee (X_2 \vee X_3)$ (5)  $X_1 \wedge X_2 = X_2 \wedge X_1$  $(6) (x_1 \wedge x_2) \wedge x_3 = x_1 \wedge (x_2 \wedge x_3)$  $(3) \times \vee \times = \times$  $(14)\chi_1\chi_2 = \chi_2\chi_2$ (7)  $\times \wedge \times -\times$  $(3.1)2) \times_{1} ((x_{2}, x_{3}) \cdot x_{4}) = (x_{1}, (x_{2}, x_{3})) \cdot x_{4} = ((x_{1}, x_{2}) \cdot x_{3}) \cdot x_{4}$  $(3,3)_{3} = \times (yv\overline{y}) = \times (yv\overline{y})(zv\overline{z}) = (\times y \vee \overline{x}\overline{y})(z \vee \overline{z}) =$ = (xy (2VZ)) V (xy(2VZ)) = XyZVXYZ V XýZ V XýZVX X Z 6) XyZVXVYZ = XyZVXXJZ  $(3.8)5)F_{1}=(\overline{\times Vy})\cdot(\overline{\times Vy})\cdot xyV(\overline{xy},xy)V\overline{x},\overline{y}$  $F_{1}: (\overline{\times \vee y}) \cdot (\overline{\times} \vee y) \cdot \times y \vee (\overline{\times} y \cdot \times y) \vee \overline{\times}, \overline{y} = ((\overline{\times \vee y}) \vee (\overline{\times} \vee y)) \times y \vee (\overline{\times} y \cdot \times y) \vee \overline{y} = ((\overline{\times} \vee y)) \vee (\overline{\times} \vee y) \vee (\overline{\times} y \cdot \times y) \vee \overline{y} = ((\overline{\times} \vee y)) \vee (\overline{\times} \vee y) \vee (\overline{\times} y \cdot \times y) \vee \overline{y} = ((\overline{\times} \vee y)) \vee (\overline{\times} \vee y) \vee (\overline{\times} y \cdot \times y) \vee \overline{y} = ((\overline{\times} \vee y)) \vee (\overline{\times} \vee y) \vee (\overline{\times} y \cdot \times y) \vee \overline{y} = ((\overline{\times} \vee y)) \vee (\overline{\times} \vee y) \vee (\overline{\times} y \cdot \times y) \vee \overline{y} = ((\overline{\times} \vee y)) \vee (\overline{\times} \vee y) \vee (\overline{\times} y \cdot \times y) \vee \overline{y} = ((\overline{\times} \vee y)) \vee (\overline{\times} \vee y) \vee (\overline{\times} y \cdot \times y) \vee (\overline{\times} y \cdot y) \vee (\overline{\times} y$  $\bigvee \left( \mathcal{J}(\overline{x} \cdot x) \right) \bigvee \overline{x} \cdot \overline{y} = \left( \overline{x} \mathcal{J} \bigvee x \overline{\mathcal{J}} \right) x \mathcal{J} \bigvee \left( \overline{x} \cdot x \right) \bigvee \overline{x} \cdot \overline{y} = \left( \overline{x} \mathcal{J} \bigvee x \overline{\mathcal{J}} \right) x \mathcal{J} \bigvee \overline{x} \overline{y}$ = (x,x)y V(J,y)xVXJ = XJ = XVJ = F2 ~mmy  $() F_1 = \overline{X} \overline{Z} V_{Xy} V_{X} \overline{Z}$ F2 = (73) ~ (X V Z)  $F_1 = \overline{X} \overline{Z} V \times y V \times \overline{z} = \overline{Z} (\overline{X} V \times) V \times y = \overline{Z} V \times y$   $F_2 = \overline{(\overline{y} \overline{z})} \cdot (\times V \overline{z}) = \times y V y \overline{Z} V \times \overline{Z} V \overline{Z} = \overline{Z} V \times y$   $= > F_1 = F_2 \times y V$   $= > F_1 = F_2 \times y V$  $F_{1}=((\overline{xy}\,\overline{yxy})\,V(xyy))((\overline{xyy})\,V(xyy)(\overline{x}\,\overline{yy}))(\overline{x}\,\overline{yy})\,F_{2}=\overline{x}\,\overline{y}=\overline{x}\,\overline{y}$  $f_{1}=((\overline{xy})(\overline{xy}))(\overline{xy}))(\overline{xy})(\overline{xy})(\overline{xy})(\overline{xy})(\overline{xy})(\overline{xy})(\overline{xy})(\overline{xy})^{2}$ · (XTVXTVXY) = (XVYVXJ)(XVXJ)=XJVXYVXJ=XVXYz= =  $\sqrt{\chi}$  =  $\sqrt{\chi}$   $\chi$   $\chi$   $\chi$  $F_z = \overline{y} \times \overline{z} \quad (\overline{z} \vee y)$ E)Fi=Xy · (xy ZV Xy Z)  $F_1 = \overline{Y} \sqrt{(x\overline{y}\overline{z}\sqrt{\overline{x}}\overline{y}\overline{\overline{z}})} = \overline{X}VYV(\overline{x}\overline{y}\overline{z})(\overline{X}\overline{y}\overline{z}) = \overline{X}VYV(\overline{X}VYV\overline{z})(\overline{X}\overline{y}\overline{z}) = \overline{X}VYV\overline{z}$ - XVYVXJZ - XVY F2=(gVXVZ)(XVY)=XYVXVY=F1 2mg 9)  $F_1 = (x \vee (\overline{y} \vee \overline{z}))(y \vee z)$   $F_2 = (x \vee y)(z \vee \overline{x} \vee \overline{y})(x \vee y \vee z)$ F1=(xVgZ)(gVZ)=XgVgZVXZ of the time. F\_=(xvy)(ZVXy)(xyvZ)=XZVYZVXY