WXYZ V WXYZ

 $11 \times v \times y = x(yv\bar{y}) v \times y = x\bar{y} v \times y$ 

- (IS)  $f(x,y,z) = (\overline{x}y \vee \overline{x}z)(\overline{x}\vee \overline{y}z)$   $= (\overline{x}y \vee \overline{x}\vee \overline{z})(\overline{x}(\overline{y}\vee \overline{z}))$   $= \overline{x}\overline{y}\vee \overline{x}\overline{z}$   $= (\overline{x}\vee \overline{z})(\overline{x}\overline{y}\vee \overline{x}\overline{z}) = \overline{x}\overline{y}\vee \overline{x}\overline{z}\vee \overline{x}\overline{y}\overline{z}\vee \overline{x}\overline{z}$  $= \overline{x}\overline{y}z \vee \overline{x}\overline{z} \vee \overline{x}\overline{y}\overline{z}$
- (9) f(w, x, y, z) = wy v (wy v z) (X V W Z)

  = wy v wxy v xz v wy v vz z

  = wy v wxy v xz v wz

  = wxyz v wxyz v wxyz v wxyz v wxyz

  V wxyz v wxyz v wxyz v wxyz v wxyz

  V wxyz v wxyz v wxyz v wxyz v wxyz

- @ O xy v xy v xT
  - B XYZ V XYZ V XYZ V XYZ V XYZ V XYZ
- 9 WXYZ V WXYZ V WXYZ V WXYZ