3.) $F = x y' 2 + x' y' 2 + \omega' xy + \omega x' y + \omega x y$ $= x y' 2 (x + x') + x y (\omega' + \omega) + \omega x' y$ $= x y' 2 (x + x') + x y (\omega' + \omega) + \omega x' y$ $= x y' 2 (x + x') + x y (\omega' + \omega) + \omega x' y$ 4.) Truth Table wx!y XY $\frac{Z}{0}$ $\frac{yZ}{0}$ wx'y X١

The number of Not gates reduced to 1 from 3. The number of And gates reduced to 4 from 8