1 (a) $F = [(x'+w)y + wyz + x'z(x+y)]'$ 2(a 2c

$$= [(x'+w)y]' \cdot (wyz)' \cdot [x'z(x+y)]'$$

$$= [\ .\ xw' + y'] \cdot [w'+y'+z'] \cdot [(x+z') \cdot x'y']$$