(14) Simplify the following functions using Boolean algebra:

(d) F(x,y,z) = ∑ (3,5,6,7)

==> x’yz + xy’z + xyz’ + xyz + xyz + xyz

= yz~~(x’ + x)~~ + xy~~(z + z’)~~ + xz~~(y+y’)~~

(e) F(x,y,z) = xy + x`y`z` + x`yz`

==> xy + x`y`z` + x`yz`

= xy + x’z’~~(y+y’)~~

(f) F(x,y,z) = x`y` + yz + x`yz`

==> x’y’ + y(z+x’z’)

= x’y’ + y(z+x’)

= x’y’ + yz + x’y = x’ + yz

(g) F(A,B,C) = A`B + BC` +B`C`

==> A’B + C’