(e) 
$$(d+bc')' + (ge+f) + (d+bc')$$
 Given

Substitution

H' +  $(ge+f) + H$ 

H=  $d+bc'$ 

H'+H+  $(ge+f)$ 

Communative

 $ge+f$ 

Complementarity

(a)  $(ab+c)(b+c'd)$  Given

 $abb+ac'd+cb+cc'd$  Distributi we  $ab+ac'd+cb+cc'd$  I dempotency

 $ab+ac'd+cb+d$  Complementarity