**Self-Assessment 2-2**

2. Using DeMorgan's Laws, give equivalent functions for the following:

1. (a'bcd)'
2. (ab)' + (c' + d)'
3. (ab)' + (ac)' + (ad')' + (bc)' + (bd')' + (cd')'

**Answer**

1. (a'bcd)' = a + b' + c' + d'
2. (ab)' + (c' + d)' = a' + b' + cd'
3. (ab)' + (ac)' + (ad')' + (bc)' + (bd')' + (cd')' =   
   (a' + b') + (a' + c') + (a' + d) + (b' + c') + (b' + d) + (c' + d) =  
   a' + b' + c' + d