

Reduce the following to minimum-sum-of-products. (*e.g.*, $A^*/B + /A^*B$)

1. $A^*B^*C + A^*B^*/C$

2. $A^*B + A^*C + /B^*C$

3. $/A^*/B^*/C^*/D + /A^*B^*/C^*D + /A^*B^*C^*D + A^*/B^*/C^*/D + A^*/B^*/C^*D + A^*/B^*C^*/D$
 $+ A^*/B^*C^*D + A^*B^*C^*/D + A^*B^*C^*D$