S_N1, E1 mechanisms

Provide clear mechanisms for the following reactions:

a)
$$CH_2$$
 CH_3OH $+ HBr$

b)
$$CH_3$$
 in CH_3OH $CH(CH_3)_2$ OTs $CH(CH_3)_2$ OTS OTS OTS OTS OTS

c)
$$H_2O$$
 + HBr

d)
$$CH_3$$
 CH_3 CH_3 CH_3 CH_3