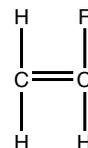


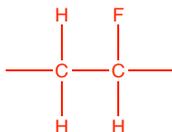


1 A polymer can be made from the monomer fluoroethene.

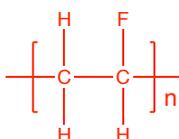


- a Name the polymer formed. **poly(fluoroethene)**
- b Name the type of polymerisation process involved. **addition**

c Draw the repeating unit of this polymer.

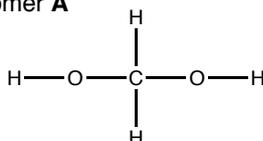


d Draw the structure of this polymer.

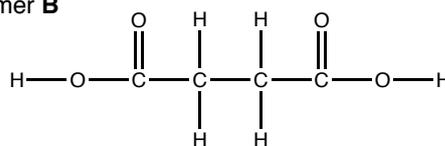


2 A polymer can be formed from these two monomers.

Monomer A

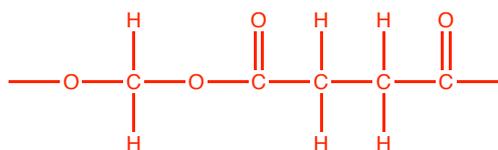


Monomer B

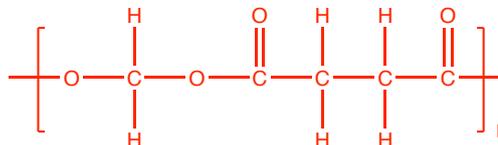


- a Name the functional groups in monomer A. **alcohol**
- b Name the functional groups in monomer B. **carboxylic acid**
- c Name the type of polymerisation process involved. **condensation**

d Draw the repeating unit of this polymer.



e Draw the structure of this polymer.



3 The polymers in questions 1 and 2 are both thermosoftening polymers. Explain what happens when these polymers are heated and explain why this happens.

soften / melt on heating

**polymer chains are not bonded to each other / weak forces between polymer chains
on heating, polymer chains can move relative to each other**