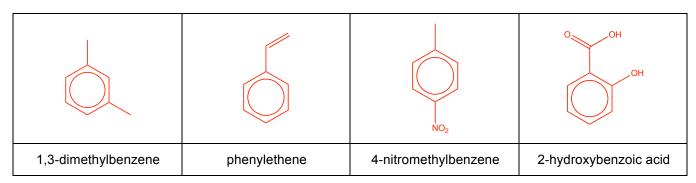
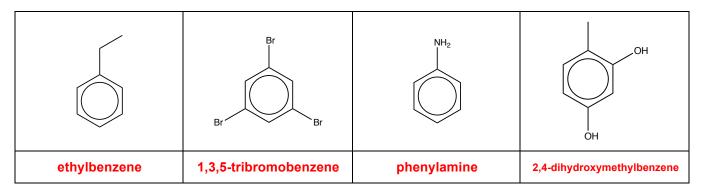
AROMATICS (A)

1 Draw the following aromatic compounds.



2 Name the following aromatic compounds.



3 a Complete the table to show the enthalpy of hydrogenation of these three compounds.

Compound			
Enthalpy of hydrogenation (kJ mol ⁻¹)	-120	-240	-208

b What do these values tell us about the structure of benzene?

might expect a 6-membered ring with 3 double bonds to be -360 but benzene is 152 kJ mol⁻¹ more stable than that due to delocalisation of electrons around the ring which reduces electron-electron repulsion

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