ALKENES WORKSHEET

1. Name the following compounds (include any isomer distinction in the name):

a)  b) 

c)  d) 

e)  f) 

g)  h) 

2. Draw the structures of:

a) (Z)-non-3-ene b) (E)-3-methylhex-2-ene

c) (4*S*, 2*Z*)-4-methylhex-2-ene (fun!)

3. For each of the following reactions, draw and name the major product(s). If one of more of these contains a chiral (stereogenic) carbon, assign whether it is the *S* or *R* enantiomer.

a) propene + HBr d) 2-methylpropene + HBr

b) propene + Br2 e) 2-methylpropene + Br2

c) propene + H2 f) 2-methylpropene + H2

4. Draw the formula of the polymer that would result from the polymerisation of the molecules in Question 1a, d and g.