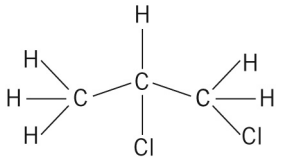
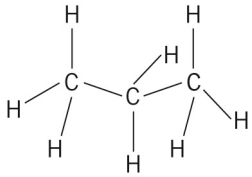
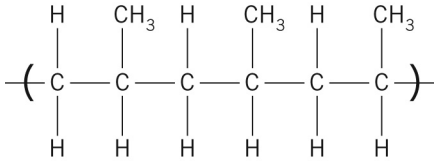
Worksheet 11.6: Solutions
Organic reaction pathways

No.	Answer
1	Oxidation reaction
2	A: primary alcohol B: aldehyde C: carboxylic acid
3	Reaction 1—secondary aldehyde to ketone—is also an oxidation reaction.
4	UV light and Cl_2 are both required.
5	Addition reaction
6	**a** HCl is the reagent required for both reactions 5 and 6 **b** The products are different because the HCl has added across the double bond in a different orientation. In reaction 5, the Cl has added onto carbon 1, whereas in reaction 6, the Cl has added onto carbon 2.
7	 1,2-dichloropropane
8	Alkane
9	
10	Compound F is a polyalkene.
11	
12	The empirical formulas are the same.
13	Reactions 10 and 11 are examples of nucleophilic substitution reactions.
14	See coursebook figure 11.6.2.