



1 a Complete the table about some addition polymers.

monomer		polymer		
name	structure	name	structure	repeating unit
propene				
			$\left[\begin{array}{c} \text{CH}_3 \\ \\ \text{---C---CH}_2 \\ \\ \text{CH}_3 \end{array} \right]_n$	

b Explain why the addition polymers shown in the table are not biodegradable.
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2 a Write an equation for the formation of the main product from the reaction of 2-methylbut-2-ene with hydrogen bromide.

b Name and outline the mechanism for this reaction.

c Explain why this is the main product formed.
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3 Draw the structure of each of these alkenes and then state which exist as *E-Z* stereoisomers.

name	pent-1-ene	pent-2-ene	1-bromo-3-ethylhex-3-ene
structure			
<i>E-Z</i> stereoisomers?			