Alkenes Quiz

1.	For pro	opene give its	
	a.	Molecular formula	
	b.	Structural formula	
	C.	Displayed formula	
	d.	Skeletal formula	
			[4]
2.	Descri	be the bonding between the two carbon atoms in ethene.	
			[2]
3.	Descri	be and draw the shape of an ethene molecule, labeling all bond an	gles.
			[2]
4.	a.	Describe a simple chemical test to determine whether an unknow hydrocarbon is an alkene. Describe the result if the test is positive	
5.			[2]
.	a.	Give the equation for propene reacting with hydrogen. You may u structural or displayed formulae.	se either

			[1]
6.	a.	Draw the displayed formulae for the two products formed when preacts with steam. Label the major product.	opene
	b.	State the catalyst required for this reaction.	[3]
			[1]
7.	Using structural formulae give the equation for the reaction of ethene with hydrochloride.		
			[1]
8.	Ethene	e will react with chlorine to give 1,2-dichloroethane.	
	a.	By what mechanism does this reaction occur by?	
			[1]
	b.	Write a balanced equation for this reaction using structural formul	ae.
			[1]
	C.	Describe the reaction mechanism using curly arrows.	
			[4]
	d.	Which substance behaves as an electrophile? Explain what is me term electrophile.	ant by the

b. What catalyst is required for this reaction to occur?

9.	ive the equation for the polymerisation of fluoroethene and name the product.		
		[2]	
10.	Give the equation for the polymerisation of cyclohexene and name the pro	duct.	
		[2]	