• Compound <b>X</b> was isolated as a derivative of a natural product. <b>X</b> H O		Marks 6
Carbon 4 of $X$ is a stereogenic centre. List the substituents attached to C4 in descending order of priority according to the sequence rules.		
highest priority	lowest priority	
What is the systematic name for compound <b>X</b> ? Make sure you include all relevant stereochemical descriptors.		
Reduction of <b>X</b> with sodium borohydride (NaBH <sub>4</sub> ) followed by quenching the reaction with dilute acid gives <b>Y</b> . Give the constitutional formula for <b>Y</b> .		
reaction with under acid gives 1. Give the constitutional formula for 1.		
Product <b>Y</b> can be separated into two isomers. Explain.		