## **Question 24** (4 marks)

In the margarine industry, alkenes are often hydrogenated to convert unsaturated oils into solid fats that have a greater proportion of saturated molecules.

(a) Using ethene as an example, write an equation for this reaction and state the type of reaction this represents.

2

C2H4 + H2O -> C2H5OH. Elvere when added with H2O forms ethanol in a hydration reaction (addition)

Describe a test that could be used to confirm that all the ethene has been converted.

2

Add Bromine water to the solution and take note of any changes to colour. Is There is a change in colour, this means What he ensure was reacted and a merphone Still present in the solution and was not converted.

415 53/