

Question 31

(6 marks)

A representation showing the general structure of soap and detergent species is shown below.



- (a) Identify **one** similarity and **one** difference between the structure of soap and detergent. (2 marks)

Similarity: _____

Difference: _____

- (b) A representation of a micelle, which shows how soap and detergent species assemble in water, is given below. Label the diagram with the letter corresponding to the following features of a micelle. (4 marks)

W	Location of water molecules
X	Location of grease/dirt particles for the cleaning action
Y	Location where dispersion forces occur
Z	Location of the hydrophilic region of the micelle

