Question 37 (24 marks)

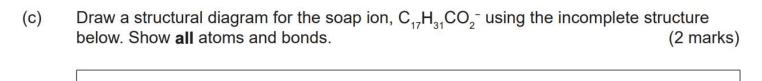
Detergents and soaps are both used as cleaning agents. The general structure of a detergent is given below.

Explain how deterg	xplain how detergents are able to remove grease from a surface by referr termolecular forces present. Include a labelled diagram to illustrate your a			
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soaps are generally less effective than detergents as clean e a relevant equation in your answer.	(4 mark

Detergents are considered to be more versatile cleaners than soap.

Alkenes can also form soaps.



$$C-C-C-C-C-C-C-C-C-C-C-C-C-C-C$$

(d)	Write an equation showing the formation of this soap from the fat (triglyceride)	shown
	below.	(3 marks)



Predict and explain the conditions that would result in the highest yie shortest amount of time.	eld of soap in the (8 marks

The formation of soap is both an endothermic and equilibrium reaction.