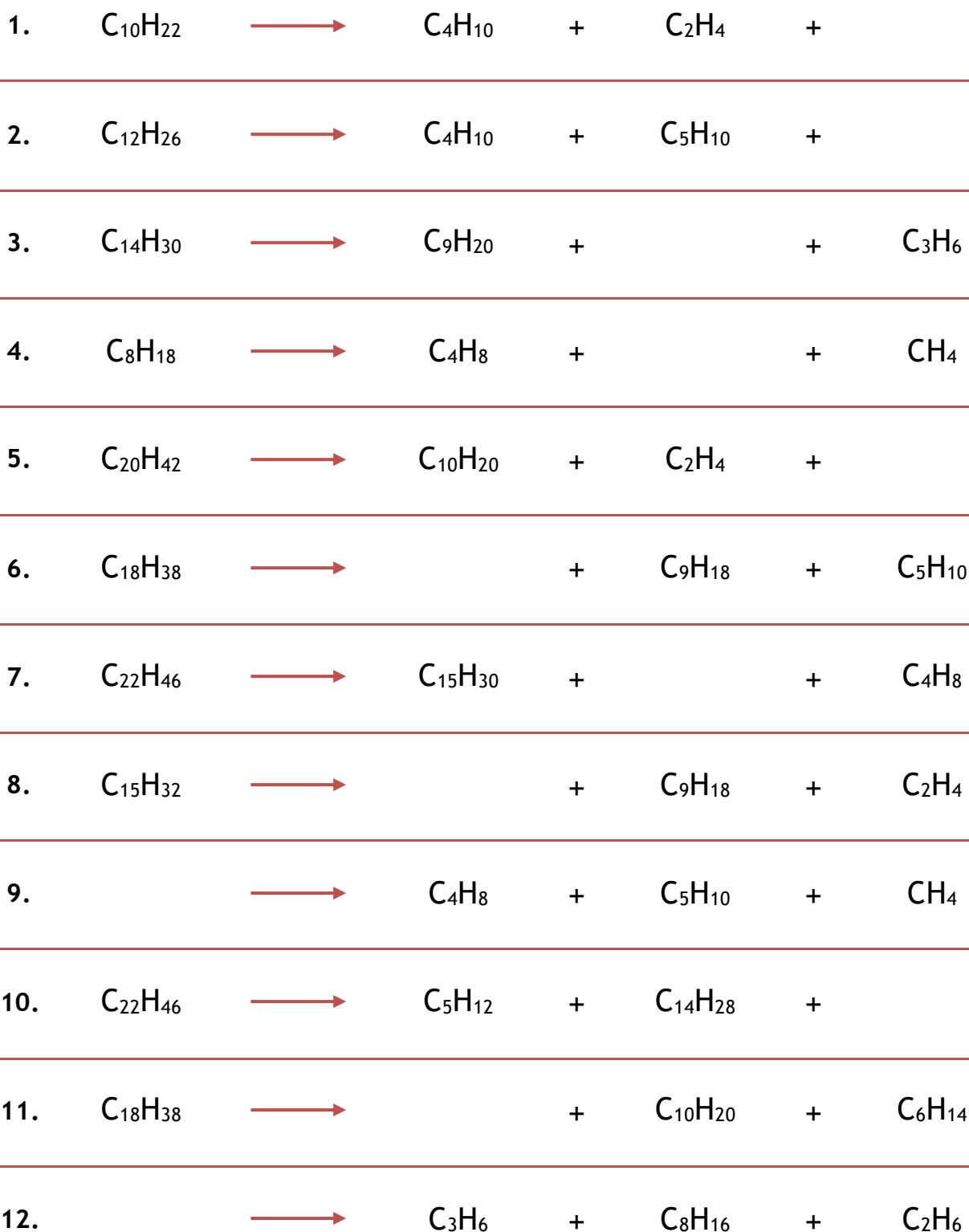


Task

1. Complete the cracking equations by entering the missing reactant and/or product.
2. Above each substance, write whether it is an alkane or an alkene.
3. For substances with 4 or fewer carbon atoms, write the name of the substance below the formula.



Answers

	alkane C₁₀H₂₂	\longrightarrow	alkane butane	+ alkene ethene	+ alkene butene
1.			C₄H₁₀	+ C₂H₄	+ C₄H₈
2.	alkane C₁₂H₂₆	\longrightarrow	alkane butane	+ alkene C₅H₁₀	+ alkene C₃H₆
					propene
3.	alkane C₁₄H₃₀	\longrightarrow	alkane C₉H₂₀	+ alkene ethene	+ alkene C₃H₆
				+ C₂H₄	propene
4.	alkane C₈H₁₈	\longrightarrow	alkene butene	+ alkene C₃H₆	+ alkane CH₄
				+ propene	methane
5.	alkane C₂₀H₄₂	\longrightarrow	alkene C₁₀H₂₀	+ alkene ethene	+ alkane C₈H₁₈
				+ C₂H₄	
6.	alkane C₁₈H₃₈	\longrightarrow	alkane butane	+ alkene C₉H₁₈	+ alkene C₅H₁₀
				+ C₄H₁₀	
7.	alkane C₂₂H₄₆	\longrightarrow	alkene C₁₅H₃₀	+ alkane propane	+ alkene C₄H₈
				+ C₃H₈	butene
8.	alkane C₁₅H₃₂	\longrightarrow	alkane butane	+ alkene C₉H₁₈	+ alkene C₂H₄
				+ C₄H₁₀	ethane
9.	alkane C₁₀H₂₂	\longrightarrow	alkene butene	+ alkene C₅H₁₀	+ alkane CH₄
				+ C₄H₈	methane
10.	alkane C₂₂H₄₆	\longrightarrow	alkane C₅H₁₂	+ alkene C₁₄H₂₈	+ alkene C₃H₆
				+ propene	propene
11.	alkane C₁₈H₃₈	\longrightarrow	alkene ethene	+ alkene C₁₀H₂₀	+ alkane C₆H₁₄
				+ C₂H₄	
12.	alkane C₁₃H₂₈	\longrightarrow	alkene propene	+ alkene C₈H₁₆	+ alkane C₂H₆
				+ C₃H₆	ethane