Butene, H₂C=CH–CH₂–CH₃, can be reacted to form isotactic polybutene (PB).

(a) Draw a trimer of isotactic PB.

(b) What is the value of the degree of polymerization, \( n \), of isotactic PB with a molecular weight of \( 3.091 \times 10^5 \) g/mol?

(c) Is isotactic PB a thermoset or a thermoplastic? Explain.