

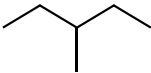
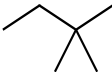
Multiple Choice Answers

Q28: C

Q29: C

Multiple Choice Answers

Q25: A

3(a)	M1 (family of molecules / compounds / series with) same general formula OR (family of molecules where) molecular formula differs (only) by (units of) $\text{CH}_{2(n)}$. M2 similar chemical properties / reactions
3(b)	M1 strong C—H (bonds) M2 non-polar (C—H / molecule / bonds)
3(c)	cracking
3(d)(i)	M1  M2 
3(d)(ii)	M1 B < A < hexane. M2 hexane / unbranched has stronger / more IMFs M3 hexane / unbranched requires most / more energy
3(e)(i)	H_2 ((g)) OR hydrogen (gas)
3(e)(ii)	M1 $+215 + (-156) - (+48) =$ M2 $+11 \text{ kJ mol}^{-1}$
3(e)(iii)	$\text{C}_6\text{H}_{14} + 9\frac{1}{2}\text{O}_2 \rightarrow 6\text{CO}_2 + 7\text{H}_2\text{O}$