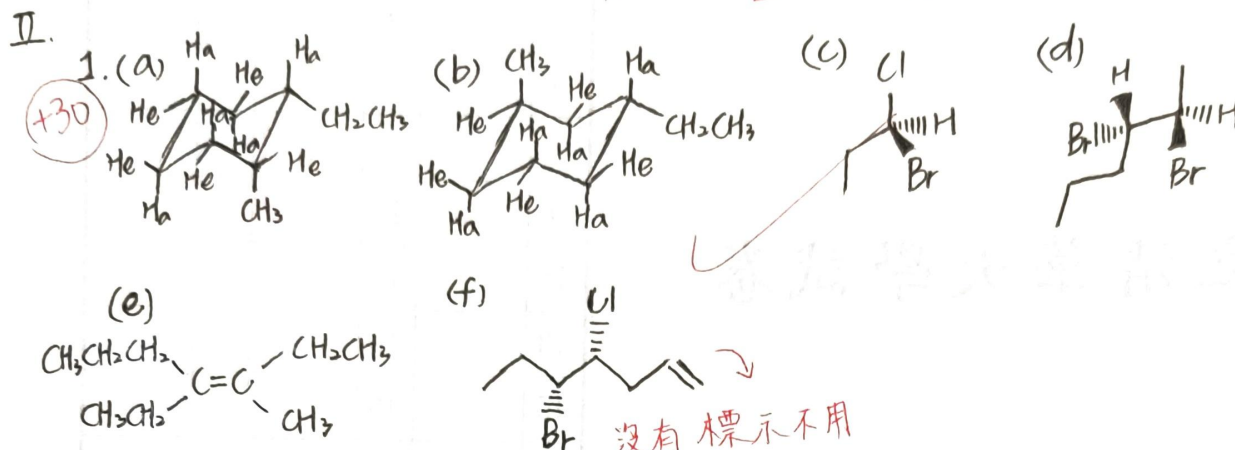


- I. 1 D 2 E 3 B 4 B 5 D 6 B 7 E 8 C 9 B 10 D
 11 C 12 D 13 D 14 C 15 D 16 A 17 A 18 D 19 E 20 C
 21 E 22 A 23 A 24 B 25 B 26 D 27 D 28 C 29 A



沒有標示不用
 畫出 R, S

2 (3S, 6S)-

(a) 6,7-dimethyl-3-octanol

+2.5

(b) 5-ethyl-2-methylcyclohexanol

+2.5

(1R, 2S, 5R)-

(c) ~~2,4-hexanediol~~

+2.5

(2S, 4R)-2,4-hexanediol

(d) (2S, 3S, 4R)-2-bromo-4-methyl-3-hexanol

+5

(e) 2-ethyl-5,5-dimethyl-1-hexene

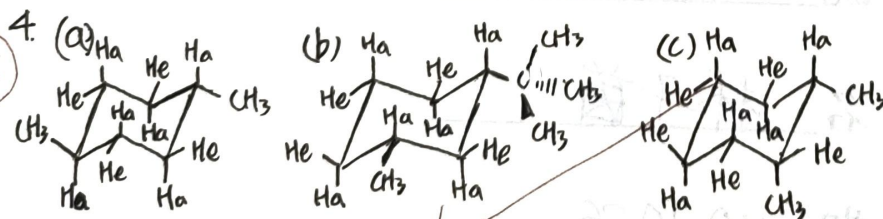
+5

(f) 3-bromo-2-methylcyclohexene

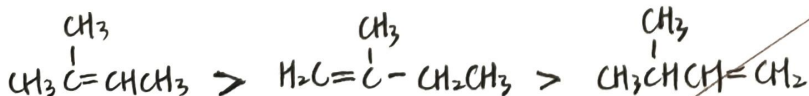
3. (a), (c) are shown chiral

(b), (f) are not shown chiral, but they are meso compounds.

(d), (e) are not shown chiral, and they are not meso compounds.



5. (a) stability



雙鍵所接的烷基級數
 愈高則愈穩定

8. (a) C.E (b) B.D.F (c) step 2 (d) step 2
 E → F → G

9. a. S e. (1R, 2R)
 b. S f. R
 c. S g. (2R, 3R)
 d. (2R, 3S) h. S

6. (a) $\Delta H = 85 - (62 + 103) = -80 \text{ (kcal/mol)}^\ddagger$
 (03+62) - (101+85) = -21

