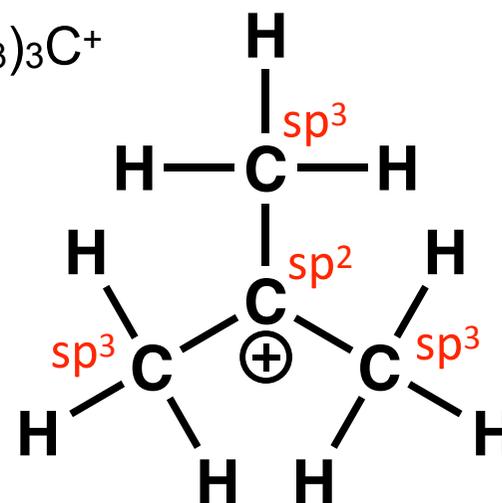
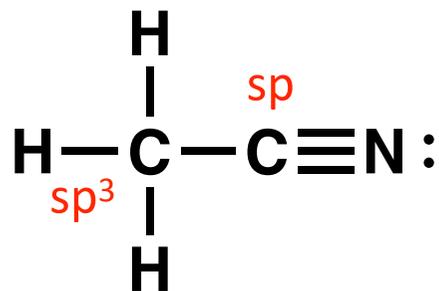
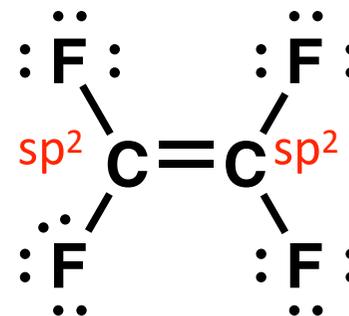
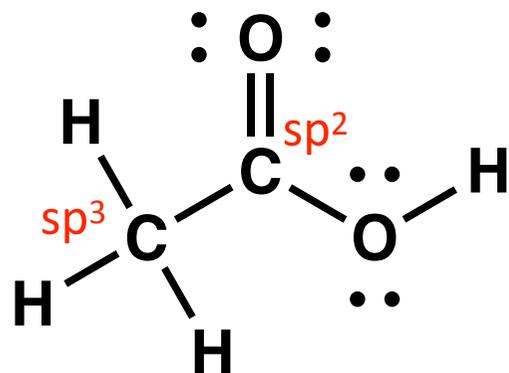
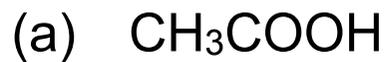
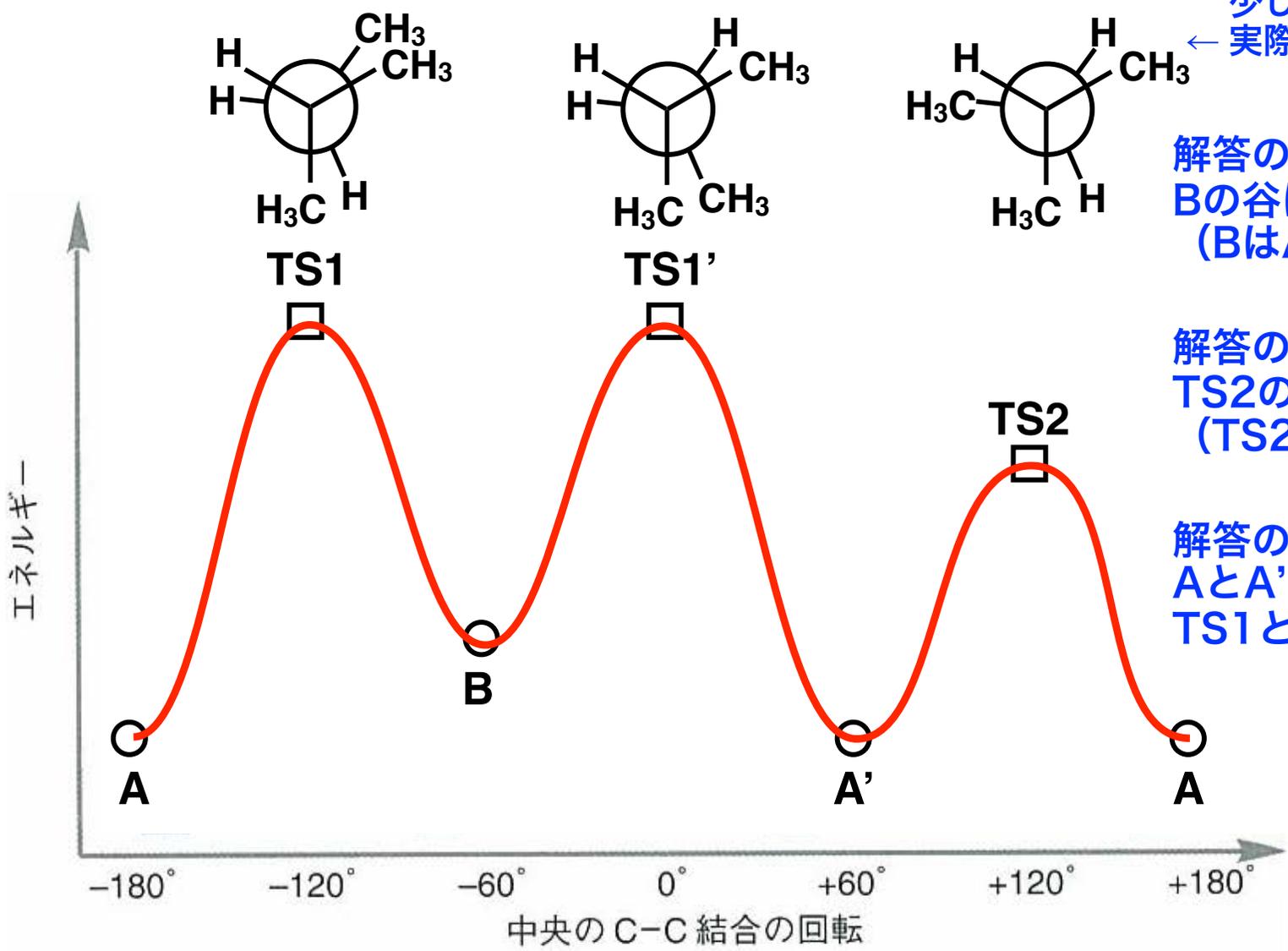


解答

1. 次の化学種のルイス構造式を示せ。
さらに、各炭素原子の混成状態(sp^x)を示せ。



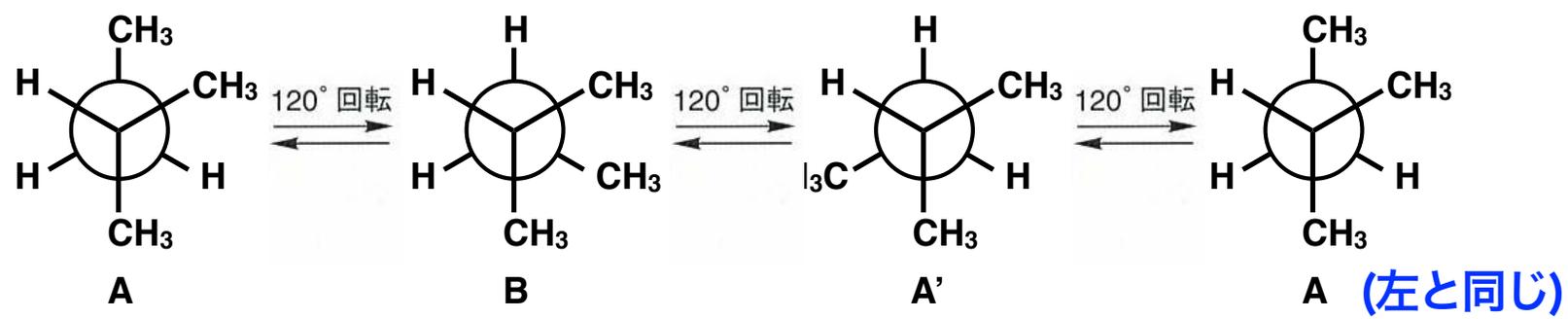
TSの構造達は見やすいように
 少しずらして描いてあるが、
 ← 実際には官能基がぴったり重なる



解答のポイントその1
 Bの谷は他よりも浅い
 (BはA/A'よりも不安定)

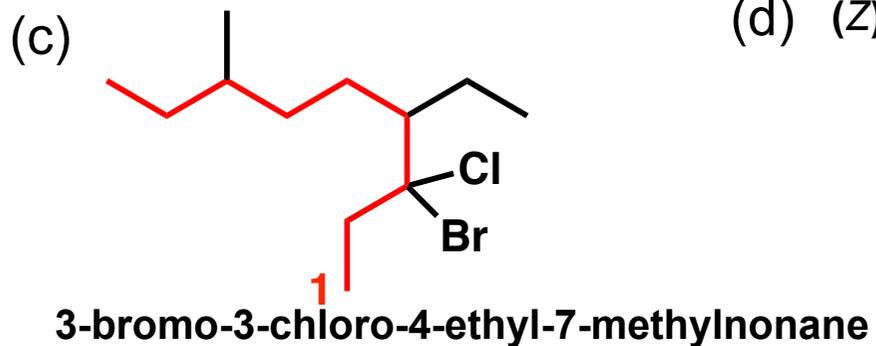
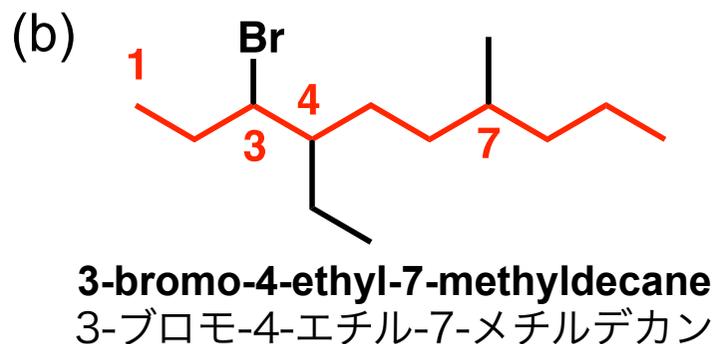
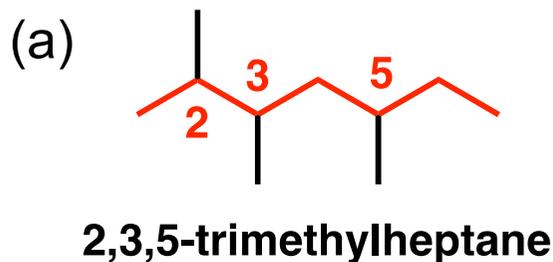
解答のポイントその2
 TS2の山は他よりも低い
 (TS2はTS1/TS1'よりも安定)

解答のポイントその3
 AとA'は同じ高さ
 TS1とTS1'は同じ高さ

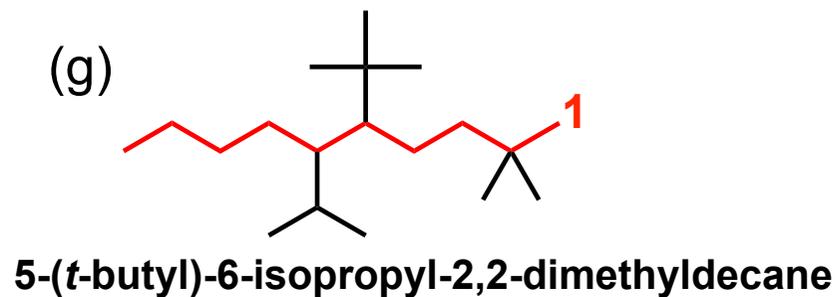
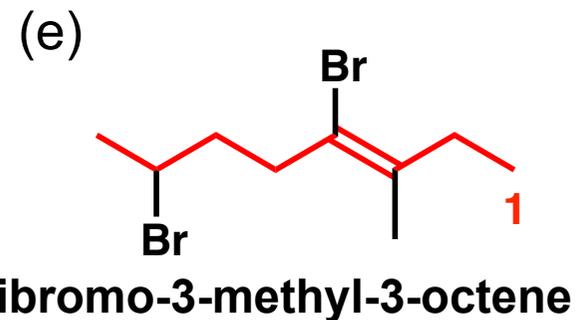


解答

3. 次の化合物を命名せよ。

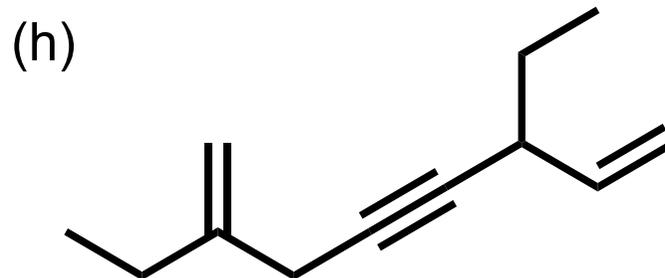
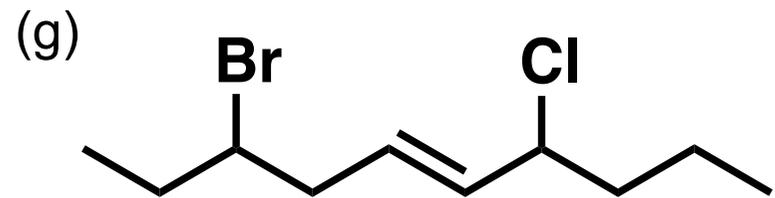
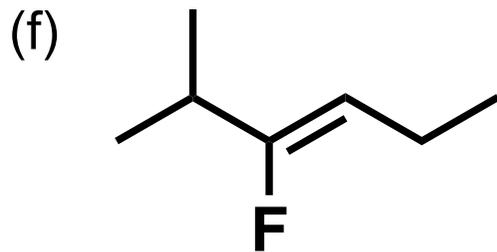
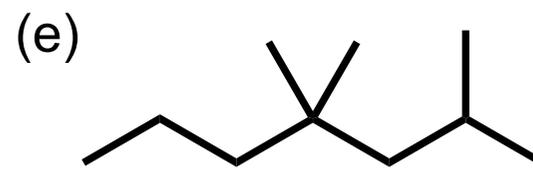
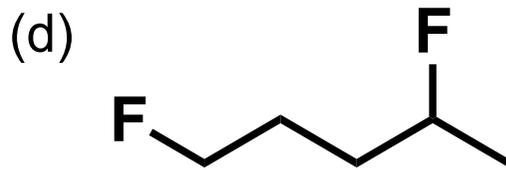
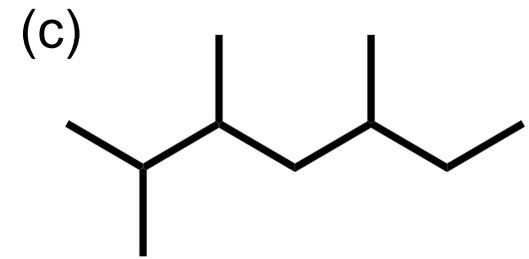
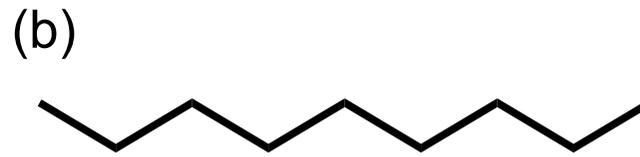
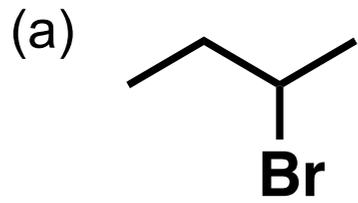


(d) **(Z)-2-bromo-3-methyl-2-hexene**



解答

4. 次の化合物の構造式を示せ。



解答

5. 「2,3-dimethylbutane」について、3級炭素-3級炭素間の結合の回転に注目したNewman投影式を書け。また、エネルギーの二面角による変化を示すグラフを書け。

