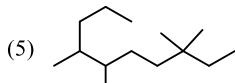
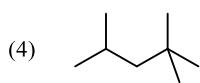


第二次作业答案

1. 用系统命名法命名下列化合物：



解答：

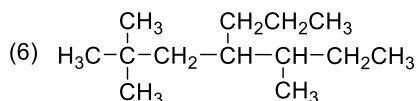
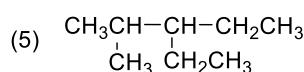
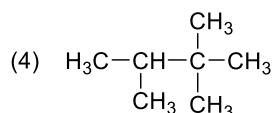
(4) 2,2,4-三甲基戊烷 (5) 3,3,6,7-四甲基癸烷

3. 写出下列化合物的构造简式。

(4) 相对分子质量为 100，同时含有伯、叔、季碳原子的烷烃；

(5) 3-ethyl-2-methylpentane; (6) 2,2,5-trimethyl-4-propylheptane;

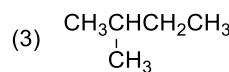
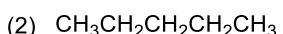
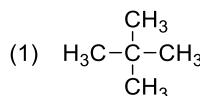
解答：



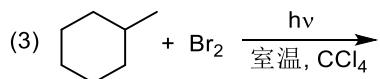
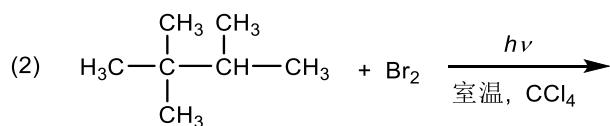
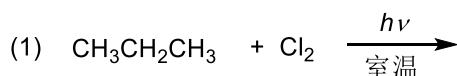
7. 根据以下溴代反应事实，推测相对分子质量为 72 的烷烃异构体的构造简式。

(1) 只生成一种溴代产物； (2) 生成三种溴代产物； (3) 生成四种溴代产物。

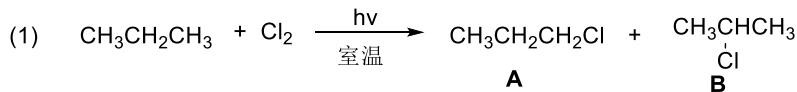
解答：



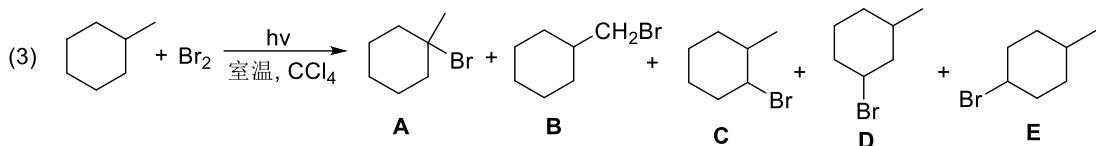
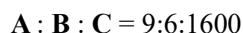
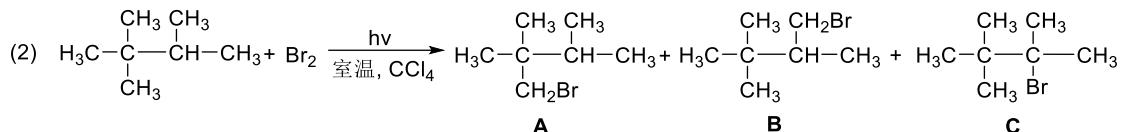
8. 试写出下列各反应生成的一卤代烷，预测所得主产物的比例。



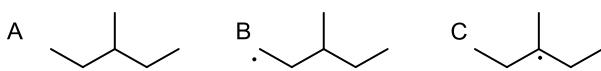
解答：



A : B = 3:4



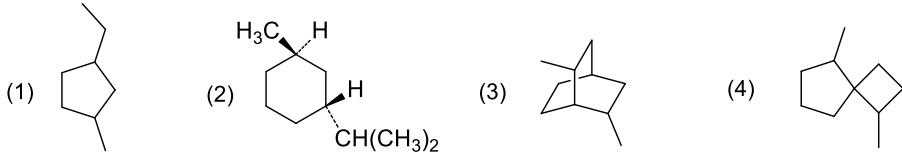
9. 下列自由基按稳定性由大至小排列成序:



解答:



10. 命名下列化合物:



解答:

(1) 1-乙基-3-甲基环戊烷

(2) 反-1-异丙基-3-甲基环己烷

(3) 2,6-二甲基二环[2.2.2]辛烷

(4) 1,5-二甲基螺[3.4]辛烷