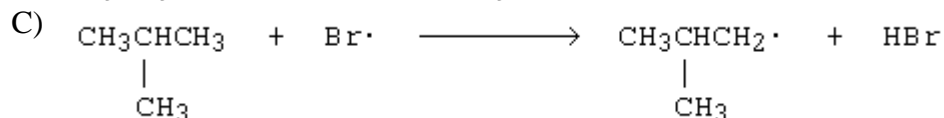
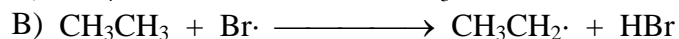
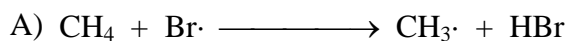


Homework/Problem Set #10
Chapter 10. Radical Reactions

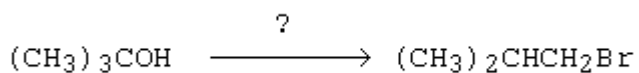
1. Which of the following reactions would have the smallest energy of activation?



2. The reaction of 2-methylbutane with chlorine would yield how many monochloro derivatives (include stereoisomers)?

- A) 2
- B) 3
- C) 4
- D) 5
- E) 6

3. Which would be the best way to carry out the following synthesis?



- A) (1) HA, heat; (2) HBr
- B) (1) HBr and peroxides; (2) Br_2/CCl_4
- C) (1) HA, heat; (2) HBr and peroxides
- D) (1) Br_2/CCl_4 ; (2) HA, heat
- E) (1) HA, heat; (2) Br_2/CCl_4

4. Starting with the cyclopentane and using any other needed reagents complete synthesis of the following diol.

