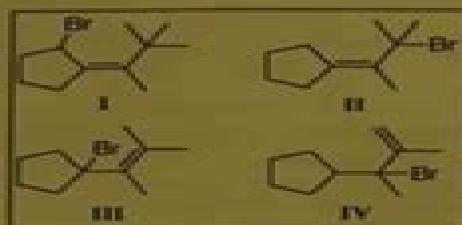


25. Which two compounds ionize with loss of a bromide ion to form the same carbocation?



- (A) I and IV
(B) II and III
(C) III and IV
(D) I and II

26. What is the product of polymerization of 1-butene?

- (A) 
(B) 
(C) 
(D) 

27. Which synthetic sequence will give the highest yield of this product?



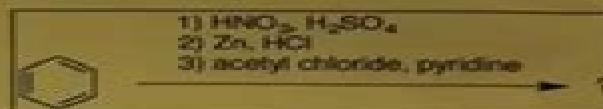
- (A) $\text{H}_3\text{C}-\text{CH}=\text{CH}_2 \xrightarrow{\text{NaNH}_2} \text{CH}_3\text{CH}(\text{Br})\text{CH}_2\text{CH}_3 \xrightarrow{\text{H}_2, \text{ Lindlar}} \text{H}_3\text{C}-\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3$
(B) $\text{H}_3\text{C}-\text{CH}=\text{CH}_2 \xrightarrow{\text{NaNH}_2} \text{CH}_3\text{CH}(\text{Br})\text{CH}_2\text{CH}_3 \xrightarrow{\text{Na, NH}_3} \text{H}_3\text{C}-\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3$
(C) $\text{CH}_3\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3 \xrightarrow{\text{NaNH}_2} \text{CH}_3\text{CH}(\text{Br})\text{CH}_2\text{CH}_3 \xrightarrow{\text{H}_2, \text{ Lindlar}} \text{H}_3\text{C}-\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3$
(D) $\text{CH}_3\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3 \xrightarrow{\text{NaNH}_2} \text{CH}_3\text{CH}(\text{Br})\text{CH}_2\text{CH}_3 \xrightarrow{\text{Na, NH}_3} \text{H}_3\text{C}-\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3$

28. What is the major product?



- (A) 
(B) 
(C) 
(D) 

29. What is the major product?



- (A) 
(B) 
(C) 
(D) 

30. Rank from slowest to fastest rate of electrophilic aromatic substitution.



- (A) I < II < III
(B) III < II < I
(C) II < III < I
(D) I < II < III

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**Norbert J. Pienta, Melanie M.
Cooper, Thomas J. Greenbowe**

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these instructors to share evidence based practices experiences challenges and innovative approaches from CER literature and beyond This Research Topic bridges discipline based education research and the scholarship of teaching and learning which will help advance organic chemistry education and improve student outcomes **Organic Chemistry** David R. Klein,2020-12-22 In Organic Chemistry 4th Edition Dr David Klein builds on the phenomenal success of the first three editions with his skills based approach to learning organic chemistry The Klein program covers all the concepts typically covered in an organic chemistry course while placing a special emphasis on the skills development needed to support these concepts Students in organic chemistry need to be able to bridge the gap between theory concepts and practice problem solving skills Klein s SkillBuilder examples and activities offer extensive opportunities for students to develop proficiency in the key skills necessary to succeed in organic chemistry [Chemists' Guide to Effective Teaching](#) Norbert J. Pienta,Melanie M. Cooper,Thomas J. Greenbowe,2005 Part of the Prentice Hall Series in Educational Innovation for Chemistry this unique book is a collection of information examples and references on learning theory teaching methods and pedagogical issues related to teaching chemistry to college students In the last several years there has been considerable activity and research in chemical education and the materials in this book integrate the latest developments in chemistry Each chapter is written by a chemist who has some expertise in the specific technique discussed has done some research on the technique and has applied the technique in a chemistry course [Subject Guide to Books in Print](#) ,1984 **Chemunity News** ,1993

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