1. Is cheese cake a cake or a pie?

2. Review: 5.10-7 in CARVER 205

3. Carbocation Stability

Stability:
Primary/Secondary/Tertiary
Alkane/Allylic/Benzylic
No Heteroatoms/W/ Heteroatoms

6.28 Rank the three carbocations shown in terms of increasing stability:

(a) 
(b) 

Review resonance stabilized

2. Rearrangements

- Proton (H⁺) vs Hydride (H⁻)
- Shifts: Hydride + Methyl (group on neighboring carbon)
- Rearrangement only occurs if it forms more stable carbocation

6.17 For each of the following carbocations determine if it will rearrange, and if so, draw the carbocation rearrangement with a curved arrow:

(a) 
(b) 
(c) 
(d) 
(e) 
(f) 
(g) 
(h) 

3. Review of Time
6.11 For each of the following cases, read the curved arrows and identify which arrow-pushing pattern is utilized:

(a) The curved arrow indicates a hydrohalogenation.
(b) The curved arrow indicates a nucleophilic addition.
(c) The curved arrow indicates a proton transfer, where the proton accepts a hydrogen atom.
(d) The curved arrow indicates a nucleophilic substitution.
(e) The curved arrow indicates a loss of a leaving group.