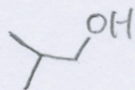
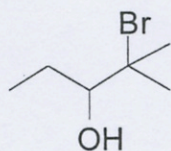


CEM 143 Quiz - Quiz 4

1) In the space provided draw the structure of isobutyl alcohol (3 pts.).

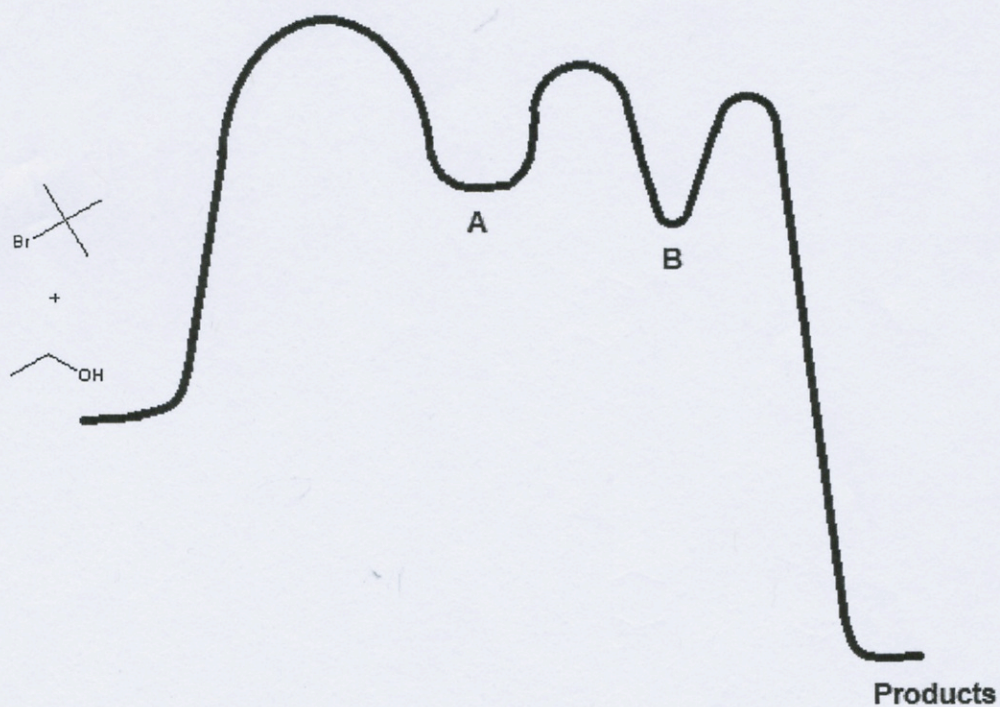


2) Name the following compound (3 pts.)



2-Bromo-2-methyl Pentan-3-ol
or 2 Bromo-2-methyl -3 Pentanol

Part 2. Use the reaction energy diagram to answer the following questions



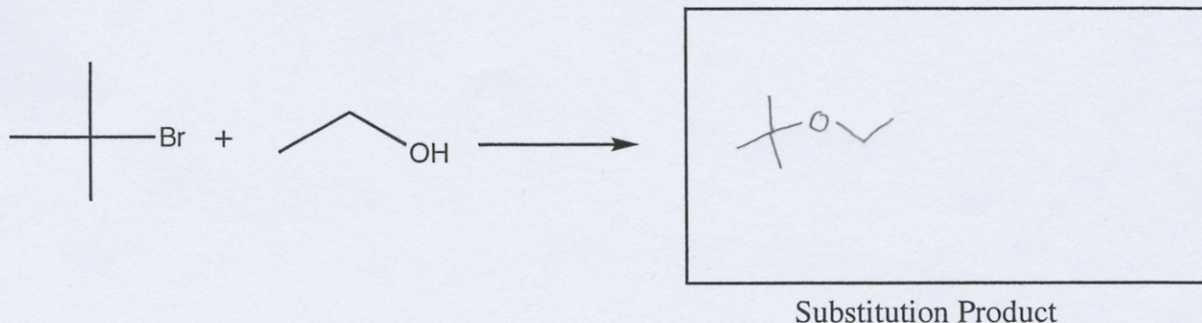
3) What type of substitution reaction could be represented by the above reaction energy diagram? (3pts.)

S_N1

4) Which step in the above reaction energy diagram would you expect to be the rate determining step? (3 pts.)

formation of Intermediate A

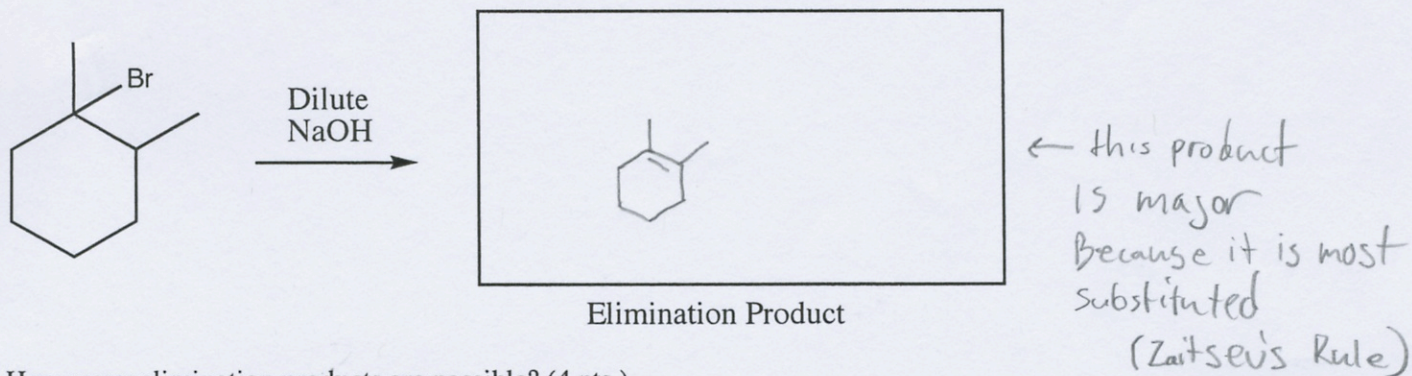
5) Draw the structure of the product. (3pts.)



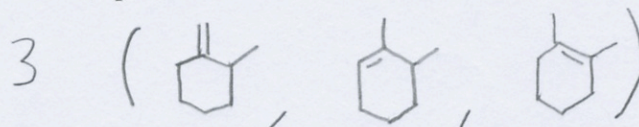
6) Draw the structure of carbocation intermediate A. (3pts.)



Part 3. Consider the following elimination reaction:



How many elimination products are possible? (4 pts.)



Complete the equation by drawing the major elimination product in the box above. (3 pts.)