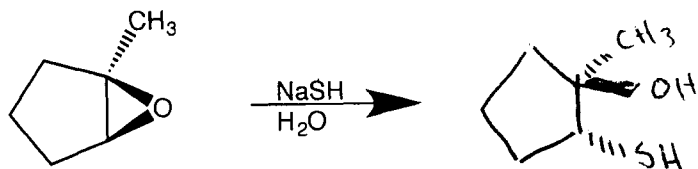


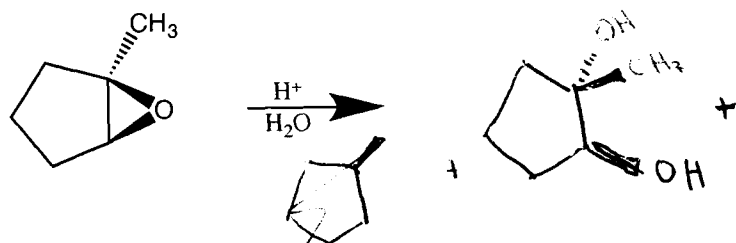
USE A SEPARATE SHEET OF PAPER TO ANSWER THE FOLLOWING QUESTIONS.

1) Draw the product(s) of the following reactions. Indicate stereochemistry where relevant.

a)

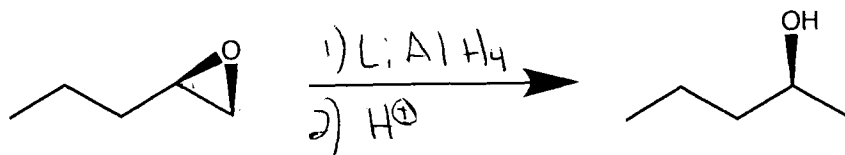


b)

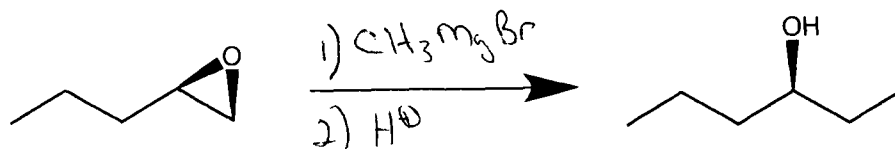


2) Provide the reagents needed to bring about the following transformations.

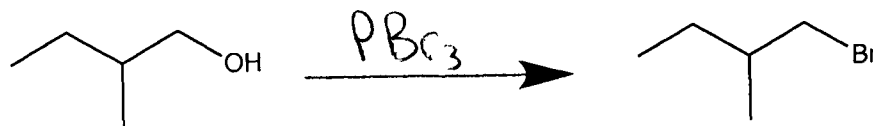
a)



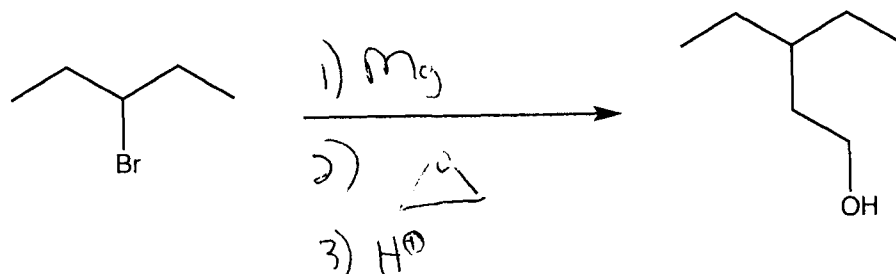
b)



c)



d)



- 3) Provide the MAJOR product of the following reaction and draw the curved-arrow mechanism for the formation of that product.

