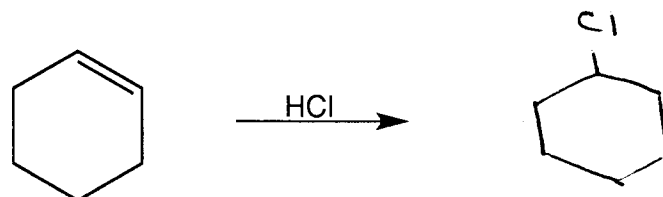


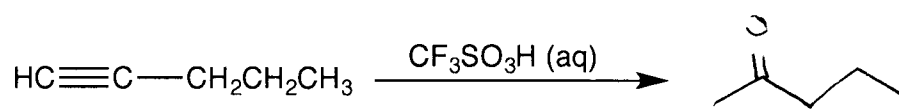
USE A SEPARATE SHEET OF PAPER TO ANSWER THE FOLLOWING QUESTIONS.

1. Provide the major product(s) for the following reactions. Be sure to indicate stereochemistry when appropriate.

(a)

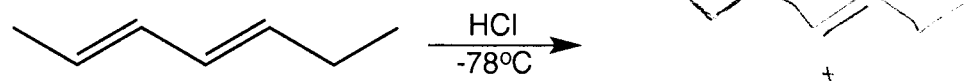


(b)

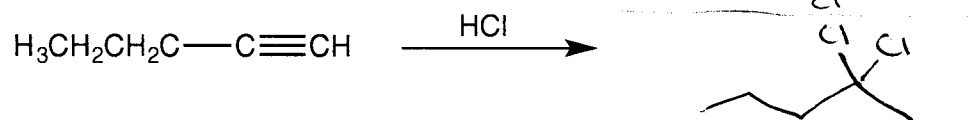


accept either
answer

(c)



(d)



accept either
answer

(e)

