Problem Set 1

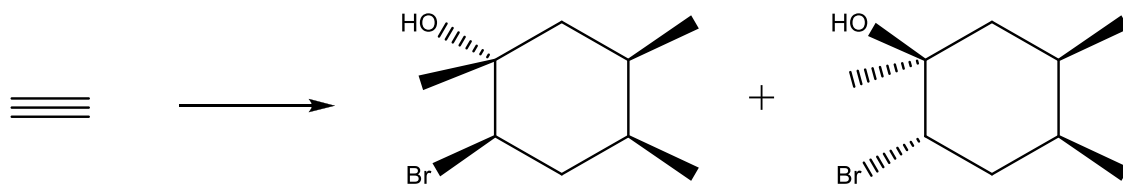### Problem 1

Problem 2