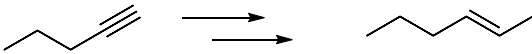
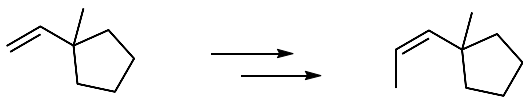
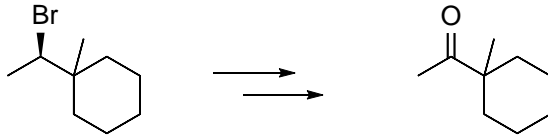
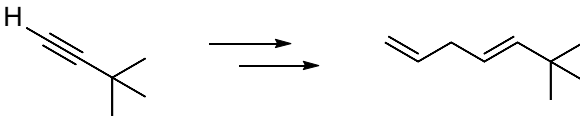
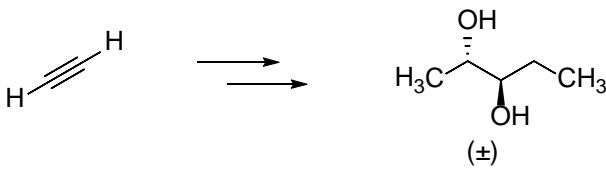
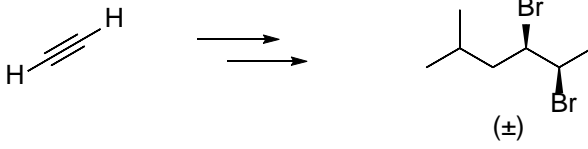
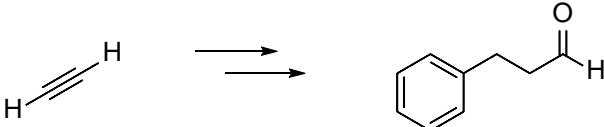


Propose a synthesis to account for the following transformations.

- a.  CCCC#C >> CCCC=C
- b.  CC1=CCCC1 >> CC1C=CCCC1
- c.  C[C@H]1CCCC[C@H]1Br >> CC(=O)C1CCCCC1
- d.  CC(C)(C)C#C >> CC(C)=CC(C)=CC(C)(C)C
- e.  H-C#C-H >> CC(O)[C@H](O)CC  
(±)
- f.  H-C#C-H >> CC(C)[C@H](Br)[C@H](Br)C(C)C  
(±)
- g.  H-C#C-H >> O=CCc1ccccc1