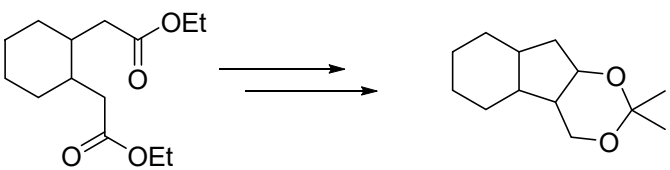
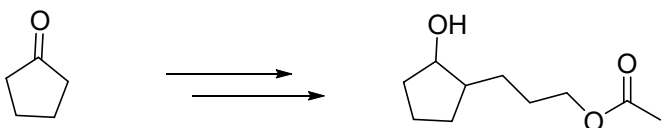
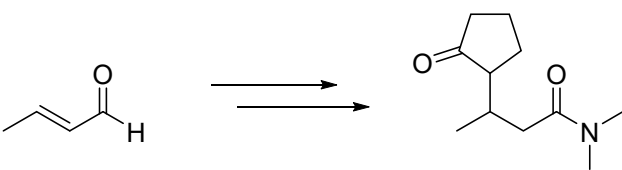
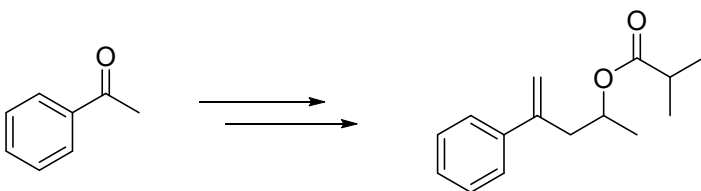
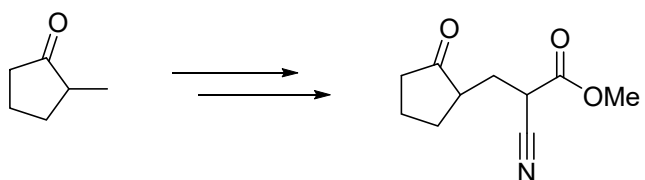
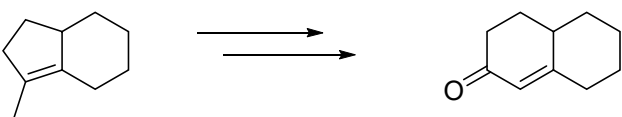
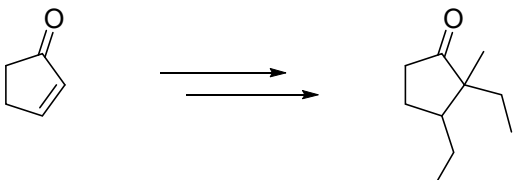
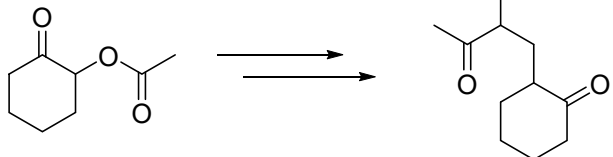


Chem 221 Worksheet
Chapter 21 Synthesis

Propose a synthesis for the following transformations.

- a.  CCOC(=O)C1CCCCC1C(=O)OCC >> CC1(C)OC2CCCCC2OC1
- b.  O=C1CCCC1 >> CC(=O)OCCCC1CCCC1O
- c.  CC=CC=O >> CCN(C)C(=O)CC1C(=O)CCCC1
- d.  CC(=O)c1ccccc1 >> CC(=O)C(C)OC(=O)CC1CCCCC1C=O
- e.  CC1CCCC1=O >> COC(=O)C(C)C(C#N)C1C(=O)CCCC1
- f.  CC1=CCCC2CCCCC2C1 >> CC1=CCCC2CCCCC2C1=O
- g.  O=C1C=CCCC1 >> CC(C)C1(C)CCCC1=O
- h.  CC(=O)C1CCCCC1=O >> CC(=O)C1CCCCC1C(=O)CC2CCCCC2=O