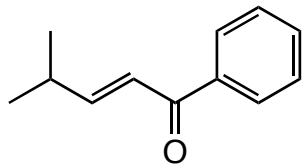
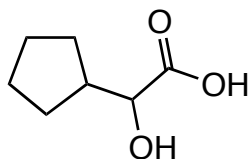


IV. (40 pts) Synthesize the following target molecules. **Each synthesis must form at least one new C–C bond.** You may use any commercially available starting materials, reagents.

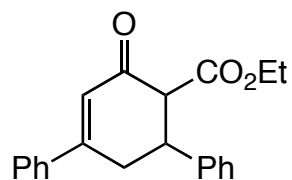
a.



b.



c.



(must start with two smaller compounds)

d.

