List all the ways you can think of to make the following compound.

There might be more, but this is a good start.

Draw a detailed mechanism for the Claisen condensation between two molecules of ethyl phenylacetate. Clearly indicate which steps are reversible and which are essentially irreversible.
Draw detailed mechanisms for the following reactions:

Part 1:

Part 2:

tautomerization
Propose efficient synthetic routes for the following transformations