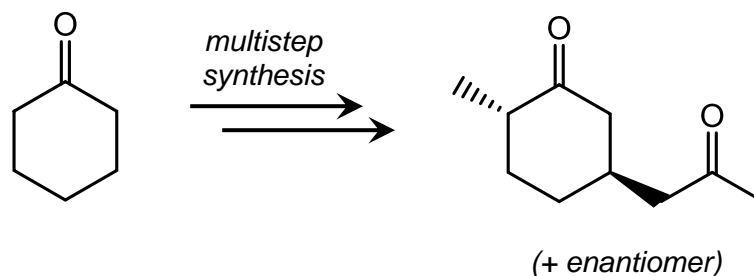


Workshop 18 Solutions
More Synthesis with Enolates



The starting cyclohexanone needs to be substituted at one α - and one β -position. The α -substitution is fairly straightforward—just deprotonate an α -proton with a strong base, and then add the methyl group. The β -substitution, on the other hand, can't be done directly on the ketone starting material. Reactions do take place at the β -position of α,β -unsaturated ketones, however; if we can somehow turn our starting ketone into an α,β -unsaturated ketone.

