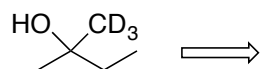
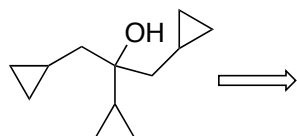


Indicate the components from which the following alcohols can be formed from *ketones* and Grignard reagents. If more than one way is possible, indicate all of them.

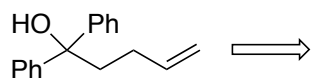


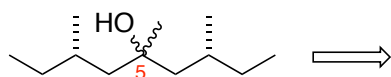
or

or



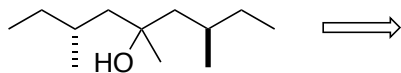
or





For the product above it *is / is not* possible to draw two diastereomers of this product by varying the stereochemistry at C⁵.

It *is / is not* possible to draw two diastereomers of the product below by varying the stereochemistry at C⁵.



F Complimentary Grignard and Hydride Reductions

Draw two ways to access these alcohols in one step (after protonation): one through hydride reduction of a ketone or aldehyde, the other through a Grignard (show reagents).

a Grignard route

hydride route

