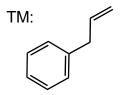
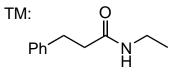
III. (10 pts) Provide a synthesis for the following target molecule (TM). The synthesis must involve the **formation of a new C–C bond**, and use only **alcohol starting materials** (along with any commercially available reagents).



IV. (10 pts) Provide a synthesis for the following target molecule (TM). The synthesis must involve the **formation of a new C–C bond** and may use any commercially available reagents.



V. (10 pts) Provide a synthesis for the following target molecule (TM) that correctly incorporates the ¹⁴C-labeled (*) carbon atoms as shown, using the given starting materials as the only sources of carbon. Any commercially available reagents may also be used.

*	
\checkmark	[►] NH ₂



available starting materials (sources of carbon):	
HC≡CH	O [*] CH₃Br