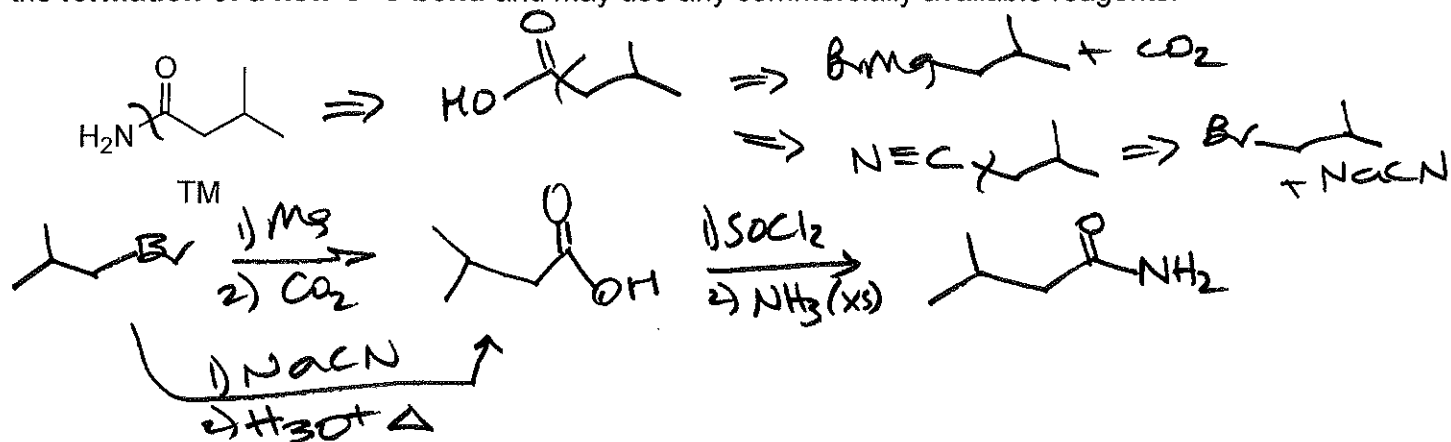


IV. (10 pts) Provide a synthesis for the following target molecule (TM). The synthesis must involve the **formation of a new C-C bond** and may use any commercially available reagents.



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

