Last Name:	First Name:
UTEID:	SCORE:

Deadline for CH310N HW 2: Sep 19 3:00 PM

1) **Grignard reagents:** Provide the **products** for the following reactions. (*structure-n-a-box*). If there is stereo- or regiochemistry in the products, you must indicate it with the appropriate drawings, such as wedge and dashed bonds.

a)
$$\frac{O}{H} \qquad \frac{1) \text{ CH}_3 \text{CH}_2 \text{MgBr}}{2) \text{ H}_3 \text{O}^+}$$

b)
$$H_{3}C$$
 CH_{2} CH_{2} $CH_{3}CH_{2}MgBr$ $CH_{3}CH_{3}O^{+}$

2) Grignard reagents: Provide the **reagents** for the following reactions. If more than one step is required (e.g. acid) you must show it.