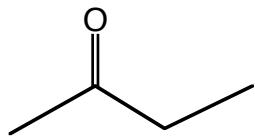


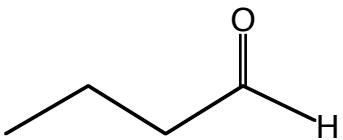
Problem 74, Chemistry 301X-2006

How could you distinguish compounds **A**, **B**, and **C** by the following methods? Be very specific.



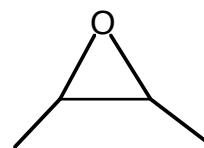
**A**

(a) Infrared spectroscopy



**B**

(b)  $^1\text{H}$  NMR spectroscopy



**C**

(c)  $^{13}\text{C}$  NMR spectroscopy