Recitation Instructor

You have 30 minutes for the following quiz. It starts 5 minutes into your recitation period.

1. Draw the following sugar in a 3D chair conformation (6-memebered ring), making sure to show the appropriate enantiomer. (8 points)

$$\begin{array}{c} \text{CHO} \\ \text{HO} \longrightarrow \text{H} \\ \text{H} \longrightarrow \text{OH} \\ \text{HO} \longrightarrow \text{H} \\ \text{HO} \longrightarrow \text{H} \\ \text{CH}_2\text{OH} \end{array}$$

2. Which of the following molecules would you think is most likely a terpene and why?. (6 points)

$$HO_2C$$
 NH_2 HO_2C OH HO_2C

2. What are the product(s) of the following reaction. (4 points)