Quiz 2 (35 points)

Name _____

1. Show the reagents required to prepare each of the epoxides. Note that you must use the Sharpless asymmetric epoxidation to do this. Be clear about which version of the reagent is required in each case. (20 points)

a.
$$\frac{t 8u00H}{Ti(0iR)_{y}}$$

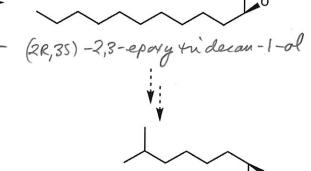
$$L-(t)-DET$$

(E)-4-cycloheryl. but-2-en-1-al

(2) - tridec -2-en-1-of

(25,35)-4-cycloheryl-2,3-epory-

b. HO + By and Ti (0: Pr)4
D-(-)-DET



disparlure (sex phermone of the gypsy moth)

(7R,85)-7,8-epoxy-2-methylocta clerane

2. Provide IUPAC names for all 5 compounds above. (C_{13} is tridec- and C_{18} is octadec-)

(25 points)