## **REVIEW QUESTIONS**

Chapter 22

1. Name each alcohol shown below, using the IUPAC system:

4-methyl-2-pentanol

c) 
$$CH_3$$
 CH<sub>3</sub>— $CH_2$ — $CH$ — $CH_2$ — $CH$  2-methyl-1-butanol

d) 
$$H_3C$$
 OH

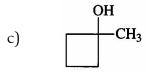
4-methyl-3-hexanol

2. Classify each as primary, secondary or tertiary alcohols.

a) 
$$CH_3$$
  $CH_3$ — $CH$ — $CH_2$ — $CH_2$ — $OH$ 

primary

<u>tertiary</u>



tertiary

d) 
$$CH_3$$
  $OH$   $|$   $CH_3$ — $CH$ — $CH_2$ — $CH$ — $CH_3$ 

secondary

3. Complete each of the reactions shown below. If reactions produce more than one isomer, draw structure for each isomer and indicate which is the major product.

major product