**CHALLENGE PROBLEMS**

1. methanol (CH3OH) 3) acetic acid (CH3COOH)

(a poisonous alcohol) (the sour taste in vinegar)

1. cyclobutane (C4H8) 4) glycerol (C3H8O3) (Hint: 3 O-H bonds)  
   (a circular hydrocarbon) (derived from fats and used in soaps)