1. (6 points) Give the name:



Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. (3 points) Draw the correct line-bond structure for *trans*-1,4-cyclohexanediol
2. (5 points) Rank the following molecules in order of increasing solubility in water (from least soluble to most soluble), and **briefly** explain your answer.



Least soluble Most soluble

1. (8 points) Draw the products or reactants of the following reactions:







