1. [4 pts] Circle the structure which is more oxidized. If they are both at the same oxidation level, circle both.

   ![Circle the structure which is more oxidized.](image)

2. [12 pts] For each of the following, supply (above and below the arrow) the missing reactants, catalysts, or other needed reaction conditions. *Give a structure if an organic reactant is missing.* If an inorganic reagent (reactant) or a catalyst is missing, simply give a formula. If heat or light is needed, be sure to indicate it appropriately. Note that not all organic products may be shown.

   ![Reaction diagrams](image)

3. [4 pts] Provide a structural formula for dimethyl sulfate.