(2) 1. Draw the monomer and at least 4 units of the polymer chain for one of the following polymers:

- teflon
- polyvinyl chloride
- polystyrene
- polypropylene

(1) 2. The process of **vulcanization** involves reacting rubber with what substance?

Sulfur

(6) 3. Name each of the following alcohols, and indicate whether it is a primary, secondary, or tertiary alcohol.

- CH₃CHCH₂CH₃
- CH₃CHCH₂OH
- H₃C

Name: **2,3-dimethyl-1-pentanol**
Name: **3-isopropyl-1-methylcyclopentanol**
Name: **3-ethyl-6-methylocyclohexanol**

Class: primary
Class: tertiary
Class: secondary

(1) 4. Use a dotted line to clearly show hydrogen bonding between water and isopropyl alcohol, with water as the hydrogen bond donor and isopropyl alcohol as the hydrogen bond acceptor.

-0.5 pts if lone pair of electrons not shown