

Grade 10 of 10 points

Points

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

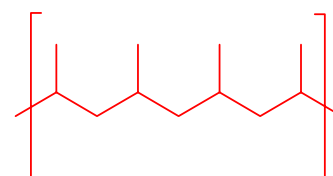
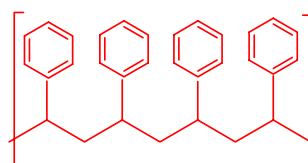
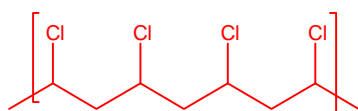
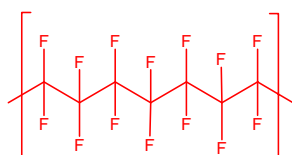
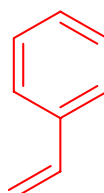
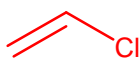
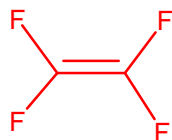
1 pt monomer, 1 pt polymer, any of the following 4. If more than one polymer done, grade first one or circled one.

teflon

polyvinyl chloride

polystyrene

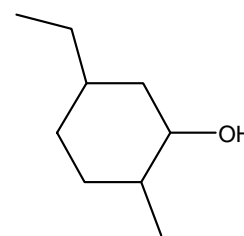
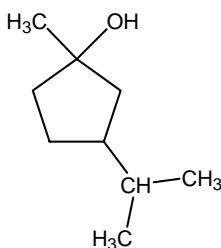
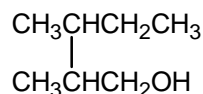
polypropylene



- (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.



Name: 2,3-dimethyl-1-pentanol

Name: 3-isopropyl-1-methylcyclopentanol

Name: 3-ethyl-6-methylcyclohexanol

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

