

Alkene Naming Practice

Name \_\_\_\_\_

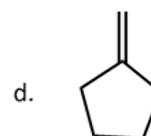
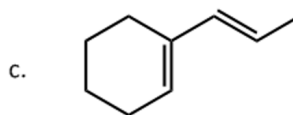
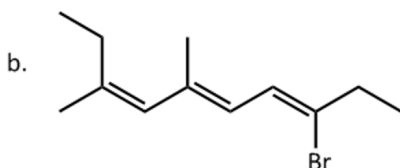
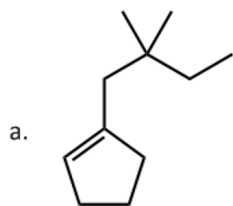
1. Draw structures for the following substituents (use a "wavy" line after the group to show it's a substituent)

a. ((2*E*)-4-methylpent-2-enyl)

b. ((2*Z*)-1,1-dimethylpenta-2,4-dienyl)

c. (*R*)-(3-(2-cyclopropenyl)hept-2-enyl)

2. Name the following structures:



3. Using the priority (Cahn-Ingold-Prelog, aka CIP) rules, show why the substituent acetylenyl ( $\text{-C}\equiv\text{CH}$ ) is higher priority than isopropenyl ( $\text{-C}(\text{CH}_3)=\text{CH}_2$ ), even though acetylenyl has fewer carbons