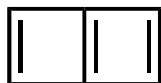


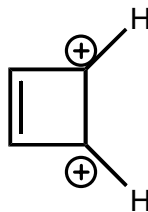
Hückel's Rule and Aromaticity

32. Would Hückel's Rule predict a compound with 12 π -electrons in a cyclic conjugated system to be aromatic? What about a compound with 14 π -electrons?
33. Indicate whether or not the following molecules are aromatic, according to Hückel's Rule.

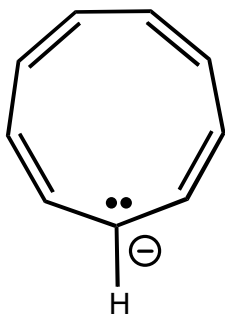
a)



b)



c)



34. When **dihydropentalene** is treated with 2 equivalents of a very strong base (butyllithium, $\text{C}_4\text{H}_9\text{Li}$), it is readily converted to a dianion, $\text{C}_8\text{H}_6^{2-}$. Draw several resonance structures for the dianion $\text{C}_8\text{H}_6^{2-}$ and explain why it is formed with such relative ease.

