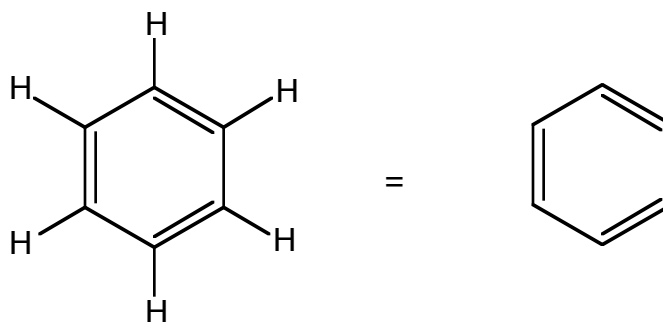


Problem 10, Chemistry 301X - 2006

(a) Draw a resonance form for the following molecule (benzene). First, think hard about the geometry of this molecule. Check your answer with a TA, please.



benzene

(b) OK, you almost certainly drew the “obvious” resonance form. Good. Now draw at least three others! Again, get your answers checked.

(c) Evaluate your new forms - Do you think they contribute substantially to the structure of benzene? Why or why not?