Methyl methacrylate has this Lewis structure:

Draw the 3-D structure for the molecule and indicate the hybridization at each non-hydrogen atom. Also, determine the approximate values of the bond angles noted on the Lewis structure

These are two Lewis structures for cyanuric acid:

What is the hybridization of each non-hydrogen atom in each of these structures?

Using the table of bond dissociation energies from class, which structure is more stable?

Using molecular orbital theory, write the electron configuration f anion and the N ₂ ⁺¹ cation. Which of these three molecules has the has the weakest? Justify your answer. Also, which of these three	e strongest bond and which
For the B_2 molecule describe the lowest energy molecular orbital in it. Describe this orbital both in words and by making a drawing orbital as well as the atomic orbitals from which it is derived	