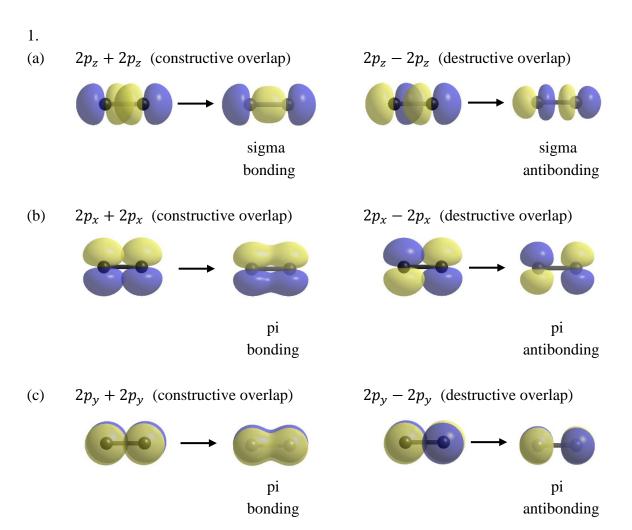
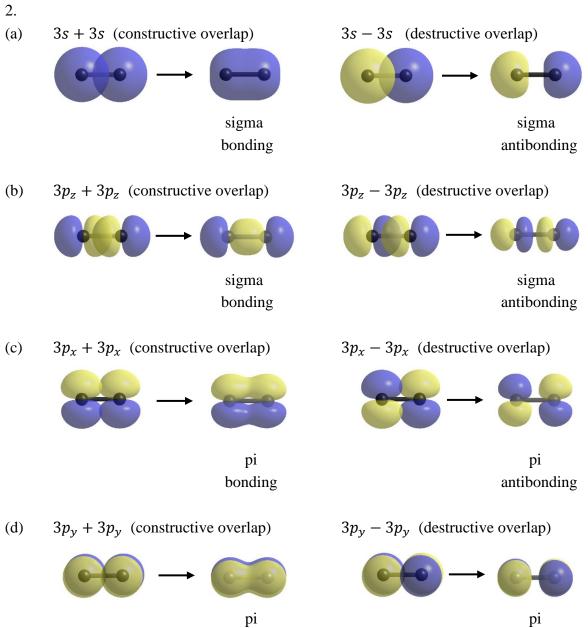
## Answers to Exercise 2.2 Linear Combination of Atomic Orbitals: Homonuclear Diatomics

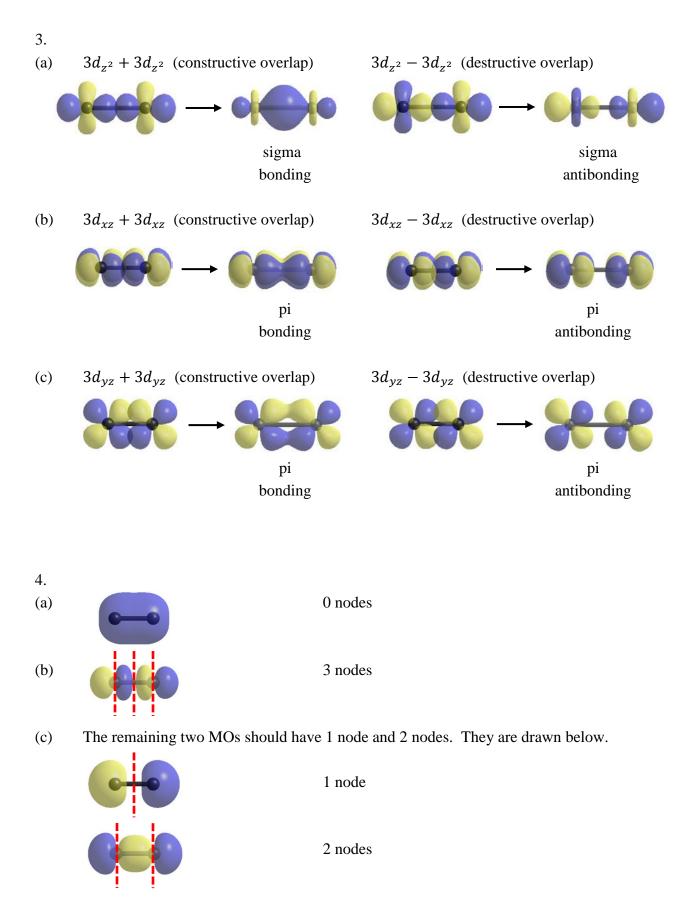
If you don't need to draw the pictures of the atomic orbitals first (i.e. the pictures on the left of the arrows), that's fine. Unless specifically requested in a question, they're not necessary; they're simply a helpful intermediate step.





bonding

antibonding



Nodes are shown using dashed red lines. You only need to draw nodes if the question asks for them.