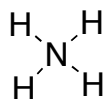


- 1) Draw an energy diagram for the ground-state electron configuration of sulfur (S, atomic # = 16)?
- 2) Draw the Lewis Dot representation of Silicon.
- 3) How many valence electrons are found in a molecule with a molecular formula of HNO_3 .
- 4) Draw the Lewis structure for HNO_3 .
- 5) Using "partial charge" notation, show the polarization of a B-F bond.
- 6) Using "partial charge" notation, show the polarization of an C-O bond
- 7) (2 pts) Assign formal charges to any charged atoms in the following molecule:



- 8) (2 pts) Assign formal charges to any charged atoms in the following molecule:

