AP CHEMISTRY Dr. EGAN

Molecular Geometries and Bonding Theories VSEPR:

http://www.chemistry.uoguelph.ca/educmat/chm19104/vsepr/shapes.htm

- For each of the molecules below
- use the link above and learn about VSEPR, and Lewis Structure
- use unlined paper for all diagrams and answers
- title each problem the molecule (XeF_2 - N_3^-)
- clearly number which problem (1-5 below) you are addressing.

XeF_2	$COCl_2$	CCl_4	PCl_5	SF_6
O_3	H_3O^+	SF_4	IF_5	SF_2
ClF_3	XeF_4	CH_2^{2-}	N_2O	N_3^-

1) Draw the Lewis structure
2) Indicate how many bonding pairs and non bonding pairs around the central atom
3) Indicate the correct skeletal structure
4) Determine the actual shape of the molecule
5) Based on the structure what is the molecules polarity