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Chapter 8 Practice Problems

Instructions: Complete the following problems by (1) drawing the electron dot structure to the right and (2) answering the following questions.

L.	Dra	raw the Lewis structure for F₂O in the space on the right.				
	a.	On central atom, Bonding Groups Lone Pairs				
	b.	State the molecular geometry:				
		Electron geometry?				
	c.	State the hybridization on the central atom:				
	d.	How many total sigma bonds are in the molecule? Pi bonds?				
	e.	Polar or nonpolar?				
2.	Dra	aw the Lewis structure for XeF4 in the space on the right.				
	a.	On central atom, Bonding Groups Lone Pairs				
	b.	State the molecular geometry:				
		Electron geometry?				
	c.	State the hybridization on the central atom:				
	d.	How many total sigma bonds are in the molecule? Pi bonds?				
	e.	Polar or nonpolar?				
3.	Dra	aw the Lewis structure for SiF ₄ in the space on the right.				
	a.	On central atom, Bonding Groups Lone Pairs				
	b.	State the molecular geometry:				
		Electron geometry?				
	c.	State the hybridization on the central atom:				
	d.	How many total sigma bonds are in the molecule? Pi bonds?				
	e.	Polar or nonpolar?				
1.	Dra	aw the Lewis structure for CO_3^{2-} in the space on the right.				
	a.	On central atom, Bonding Groups Lone Pairs				
	b.	State the molecular geometry:				

		Electron geometry?
	c.	State the hybridization on the central atom:
	d.	How many total sigma bonds are in the molecule? Pi bonds?
	e.	Polar or nonpolar?
5.	Dra	w the Lewis structure for BrF ₅ in the space on the right.
	a.	On central atom, Bonding Groups Lone Pairs
	b.	State the molecular geometry:
		Electron geometry?
	c.	State the hybridization on the central atom:
	d.	How many total sigma bonds are in the molecule? Pi bonds?
	e.	Polar or nonpolar?
6.	Dra	w the Lewis structure for N_2 in the space on the right.
	a.	On central atom, Bonding Groups Lone Pairs
	b.	State the molecular geometry:
		Electron geometry?
	c.	State the hybridization on the central atom:
	d.	How many total sigma bonds are in the molecule? Pi bonds?
	e.	Polar or nonpolar?