Which of	the following diatomic molecules is the most polar:
1. Br ₂	
2. HCl	
3. H ₂	
4. HBr	
Correct A	Inswer: 2.
	ts to the instructor: Br_2 and H_2 are nonpolar molecules; the electronegativity e between H and Cl is greater than the electronegativity difference between H
Which of	the following molecules is nonpolar:
1. CH ₃ C	
2. CO	
3. H ₂ O	
4. CH ₄	
Correct A	Answer: 4.
	ts to the instructor: Have students draw Lewis structures, first. The symmetry akes it the only nonpolar molecule among the choices given.
Of the fol is polar:	llowing species: NF ₃ , BF ₃ , CO ₂ , CH ₃ OH, which pair
1. NF ₃ ,	BF_3
2. BF ₃ ,	CO_2
3. NF ₃ ,	CH₃OH
4. CO ₂ ,	CH₃OH

Correct Answer: 3.

Comments to the instructor: Have students draw Lewis structures, first. NF_3 is polar, BF_3 is nonpolar. Both BF_3 and CO_2 are nonpolar. Both NF_3 and CH_3OH are polar. CO_2 is nonpolar, and CH_3OH is polar.