

- 1 The central atom of H₂S and H₂O each has steric number 4, and so the geometry about the central atom is tetrahedral and the shape of the molecule is bent. Which bond, H-S or H-O, is more polar?
 - A H-S
 - B H-O
 - C The bonds are of equal polarity
- 2 Which molecule, H₂S or H₂O, is more polar?
 - A H₂S
 - B H₂O
 - C The molecules are of equal polarity
- 3 The central atom of CO₂ and CS₂ each has steric number 2, and so the geometry about the central atom is linear and the shape of the molecule is linear. Which bond, C-S or C-O, is more polar?
 - A C-S
 - B C-O
 - C The bonds are of equal polarity
- 4 Which molecule, CS₂ or CO₂, is more polar?
 - A CS₂
 - B CO₂
 - C The molecules are of equal polarity
- 5 The central atom of BH₃ and BF₃ each has steric number 3 (octet deficient), and so the geometry about the central atom is trigonal planar and the shape of the molecule is trigonal planar. Which bond, B-H or B-F, is more polar?
 - A B-H
 - B B-F
 - C The bonds are of equal polarity
- 6 Which molecule, BH₃ or BF₃, is more polar?
 - A BH₃
 - B BF₃
 - C The molecules are of equal polarity
- 7 The central atom of NH₃ and NF₃ each has steric number 4, and so the geometry about the central atom is tetrahedral and the shape of the molecule is trigonal pyramid. Which bond, N-H or N-F, is more polar?
 - A N-H
 - B N-F
 - C The bonds are of equal polarity

8 Which molecule, NH_3 or NF_3 , is more polar?

- A NH_3
- B NF_3
- C The molecules are of equal polarity