Ranking Molecules by Increasing Polarity

In each of the following problems, rank the molecules from lowest to highest polarity:

1) PF_3 , LiOH, SF_2 , NF_3

2) Ni(OH)₃, N₂H₂, CH₃OH, C₂H₅OH

3) B₂F₄, H₂C₂O₄, CuCl₂, CF₂O

4) PH₃, PF₃, NH₃, NF₃

5) H₂O, H₂S, HF, H₂

Ranking Molecules by Increasing Polarity Solutions

In each of the following problems, rank the molecules from lowest to highest polarity:

- 1) PF₃, LiOH, SF₂, NF₃ NF₃ < PF₃ < SF₂ < LiOH
- 2) Ni(OH)₃, N₂H₂, CH₃OH, C₂H₅OH N₂H₂ < C₂H₅OH < CH₃OH < Ni(OH)₃
- 3) B_2F_4 , $H_2C_2O_4$, $CuCl_2$, CF_2O_4 $B_2F_4 < H_2C_2O_4 < CF_2O < CuCl_2$
- 4) PH₃, PF₃, NH₃, NF₃ PH₃ < NH₃ < NF₃ < PH₃
- 5) H_2O, H_2S, HF, H_2 $H_2 < H_2S < H_2O < HF$