Intermolecular Forces - Key

For questions 1-5, identify the main type of intermolecular force in each compound:

- 1) carbon disulfide

 Van der Weal forces = LDF
- 2) ammonia
 Hydrogen bonding
- 3) oxygen Van der Waal forces LDF =
- 4) CH₂F₂ PU(ar)
- 5) C₂H₆
 Van der Waal forces = LDF C C -

Rank the following compounds by increasing meiting point:

- 6) C₂H₆, C₂H₅OH, C₂H₆F C₂H₆ (-183.3° C), C₂H₆F (-143.2° C), C₂H₆OH (-117.3° C)
- 7) H₂S, H₂O, H₂ H₂ (-259.3° C), H₂S (-85.5° C), H₂O (0° C)
- 8) BBr₃, Bi₃, BCl₃ BCl₃ (-107.3° C), BBr₃ (-46° C), Bi₃ (49.9° C)

All meiting points were taken from The Handbook of Chemistry and Physics, 72nd Edition, by the Chemical Rubber Company. If you don't have a CRC, you need one because it contains all the reference material you'll ever need!