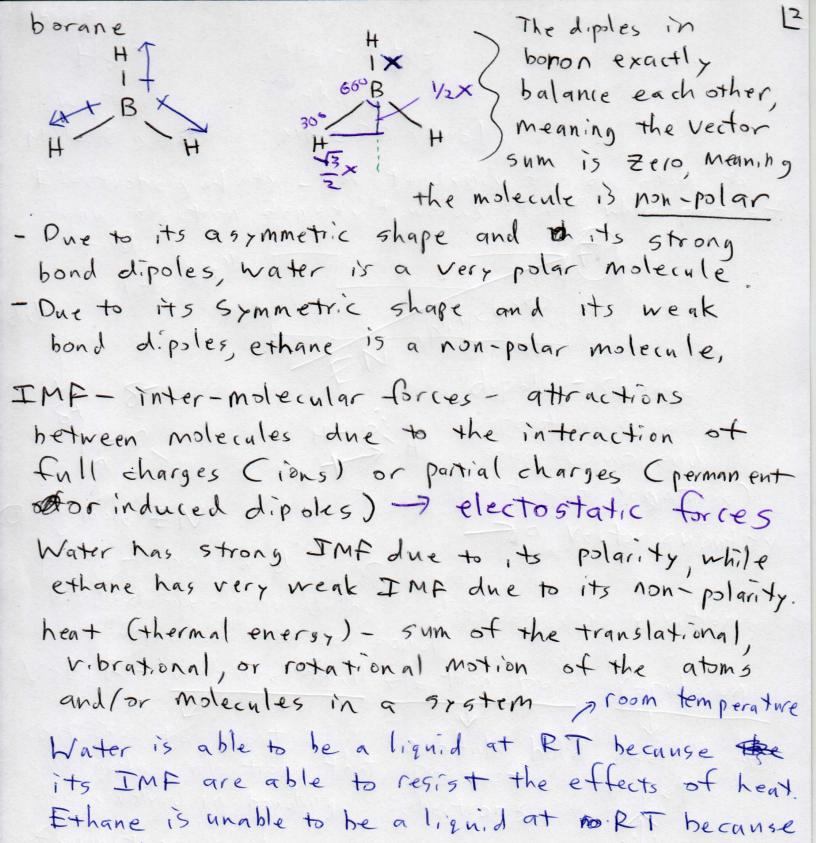
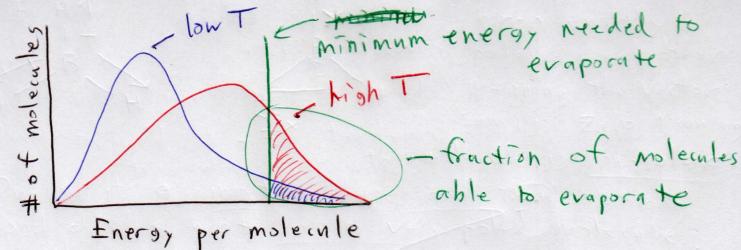
1/5/15 H30 CH3 - CH3 water ethane MM=18 0/mol MM=30 g/mol Electronegasivity - The tendency for an atom to draw electron density towards itself when part of EN increases a bond. detta-" a little bit" dipole-charge Separation across H-0, H space (two ends, positive + negative) Dis More EN -> a rector quantity polar - has a dipolar bond dipole - cansal by a difference in electronegativity of the atoms in a bond VSEPR- valence shell electron pair repulsion contains the most orbitals hold like charges energetic electrons that pairs of repel are involved in bonding electrons Symmetry bond H vertical

H projections reinforce molecular

each other > molecular dipole horizontal projections cancel



thermal energy overcomes ethane's weak IMF.



Water is able to evaporate at room temperature, even though it is not near its (normal) boiling point, because a small fraction of molecules will have the energy necessary to evaporate.