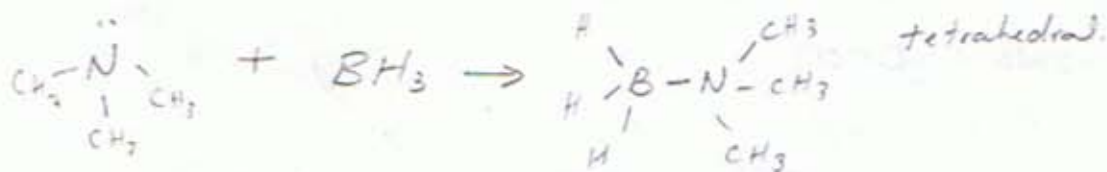


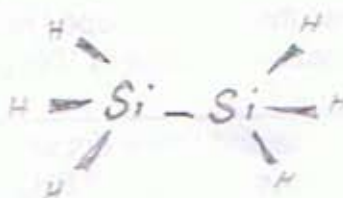
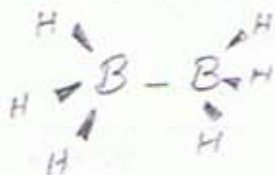
Chem 506
Background problems.
June 2008

3. Which of these two hydrides from #1 would you expect to react with trimethylamine ($\text{N}(\text{CH}_3)_3$)? Draw the product, clearly showing the geometry.



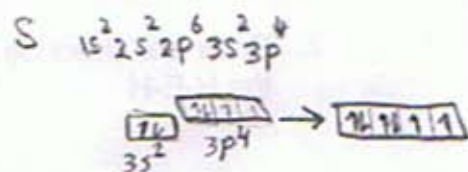
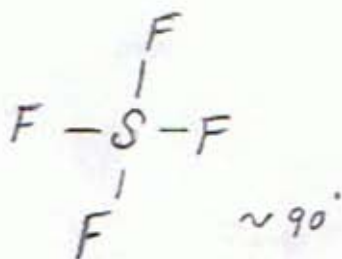
Confidence: (which reacts) 1 (geometry) 1

4. Draw the structures of diborane, B_2H_6 , and disilane, Si_2H_6 clearly indicating the 3-dimensional geometries.



Confidence: 1

5. Draw the structure (3-dimensional) of SF_4 (Sulfur tetrafluoride), and indicate the approximate size of all angles.



Confidence: 1