

# Non Sibi High School

Andover's Chem 300: Accelerated/Honors Chemistry

## Chapter 9, Review Quiz 1

### 1

Write the chemical formula for each compound:

- ammonium phosphate
- butanol
- aluminum sulfate
- potassium nitride

### 2

Write the name of each compound:

- $\text{Fe}(\text{OH})_3$
- $\text{P}_2\text{O}_5$
- $\text{Mg}(\text{HCO}_3)_2$
- $\text{C}_6\text{H}_{14}$

### 3

Draw Lewis structures for:

- boron trichloride
- $\text{SF}_5^-$

### 4

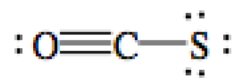
Draw Lewis structures for  $\text{H}_2\text{CNH}$  and  $\text{CH}_3\text{NH}_2$ . Which molecule will have the longer carbon-to-nitrogen bond length?

### 5

Draw all the resonance structures for  $\text{NO}_2^-$

6

Show any non-zero formal charges on the following Lewis structure:



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