

## Exam 1 Review

### Topics:

1. General Chemistry
2. Molecular Representations
3. Nomenclature
4. Alkanes/Cycloalkanes
5. Stereoisomers
6. Chemical reactivity/mechanism
7. SN/E Reactions

### General Chemistry Questions

1. Identify all of the intermolecular forces present in each molecule:
  - a.  $\text{CH}_3\text{OH}$
  - b.  $\text{CH}_3\text{COCH}_2\text{CH}_3$
  - c.  $\text{CH}_3\text{C}(\text{CH}_3)_2$
2. Fill out the blanks in the chart (VSEPR Theory)

Hybridization	Geometry	# of Bonds	# of Lone Pairs	Bond Angle
$\text{Sp}^3$	Tetrahedral	3	0	
	Bent		1	109.5
$\text{Sp}^2$		3	0	
		2	1	120
			0	180

3. Determine if the following molecules have a dipole moment
  - a.  $\text{CH}_3\text{CH}_3$
  - b.  $\text{CH}_3\text{CH}_2\text{CH}(\text{NH}_2)\text{CH}_3$
  - c.  $\text{CH}_2\text{Cl}_2$
  - d.  $\text{H}_3\text{O}^+$
  - e.  $\text{HCO}_2^-$

### Molecular Representations Questions:

1. Write the condensed name for the following structures:



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**Richard Bailey**



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