**Quiz 1**

Imagine the process $A \rightarrow B$ has a standard Gibbs free energy change of
9,000 cal mol⁻¹ ($\Delta G° = 9{,}000 \; cal \; mol^{-1}$) at 310 K. [Hint: $R = 1.99$ cal mol⁻¹ K⁻¹]

a.) At equilibrium will there be more A or B?

b.)If you create a solution with 1 Molar "A" and 1x10⁻⁶ Molar "B", what will be the overall Gibbs free energy change ($\Delta G$) for the reaction of $A \rightarrow B$ within your test tube?

In your opinion, have you successfully completed a course at the college level in each of the following:

| | | Yes | No |
|---|---|---|---|
| (i) General Chemistry | | Yes | No |
| (ii) General Biology | | Yes | No |
| (iii) Chemical Equilibria | | Yes | No |
| (iv) Thermodynamics | | Yes | No |
| (v) Inorganic Chemistry | | Yes | No |
| (vi) Organic Chemistry | | Yes | No |
| (vii) Molecular Biology | | Yes | No |
| (viii) Cellular Biology | | Yes | No |
| (ix) Genetics | | Yes | No |

What is/are your major(s) and minor(s)?

What extracurricular activities at Beloit are you involved in?

Why are you taking Chemistry/Biology 260 (honestly!)?