**Three (basic) operations permitted in linear algebra:**

**1. You may multiply any row by any non-zero constant.**

**2. You may swap any row with any other row.**

**3. You may add a linear combination of ANY row to ANY other row.**

* *Solve the following equations using Gaussian Reduction*. **You must show all work.**
* To assist in the solutions, you may download Mr. Heinen’s **Gaussian Reduction 2x2 Solver** (Excel format) from his website: <http://www.markeredwards.com/Algebra2/Alg2.html> to confirm your answers.
1. Solve the system of equations using Gaussian Reduction:

3x – 4y = 12

-2x + 8y = -22

**Three (basic) operations permitted in linear algebra:**

**1. You may multiply any row by any non-zero constant.**

**2. You may swap any row with any other row.**

**3. You may add a linear combination of ANY row to ANY other row.**

1. Solve the system of equations using Gaussian Reduction:

$$\frac{3x}{2 }-5y=-6$$

 -5x + 6y = 30