**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.**
* *A number equation with numbers

  AI-generated content may be incorrect.*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.

EXAMPLE TO SOLVE 2X + 4Y = 12

 -3X +2Y = - 6