Name: _____ **Precalculus Unit 6, Lesson 1B**

Aim: Practice with Gauss-Jordan Elimination for 2×2 and 3×3 Systems

I. Do Now:

1. Solve the system of equations for x and y using Gauss-Jordan elimination.

$$x+5y=7$$
$$-2x-7y=-5$$

II. *Example with a 3×3 System*: Solve the system for x, y, and z using Gauss-Jordan Elimination.

$$2y+z=-8$$
$$x-2y-3z=0$$
$$-x+y+2z=3$$

III. More Practice. Solve using Gauss-Jordan elimination. Use a separate sheet, if necessary.

1. $$\begin{aligned} 2x+4y+6z&=18\\ 4x+5y+6z&=24\\ 3x+y-2z&=4 \end{aligned}$$

2. $$\begin{aligned} 2x+y+z&=-2\\ 2x-y+3z&=6\\ 3x-5y+4z&=7 \end{aligned}$$

HW45 (due Wed 02 Jan 2019)
- Read pages 480 – 483, 504 – 506.
- p. 513: 7, 8, 9, 12, 14, 15, 21, 55, 57, 58