Honors Pre-Calc **Name**_____
7.3 Practice
No Calculator **Date**_____ **Block**___

Solve the system using Gaussian Elimination.

1. $\begin{aligned} x-y+z&=0\\ 2x-3z&=-1\\ -x-y+2z&=-1 \end{aligned}$

2. $\begin{aligned} 2x+y-3z&=0\\ 2x+2y-z&=2\\ 3x-2y+z&=-7 \end{aligned}$

Find the Reduced Row Echelon Form to solve.

3. $\begin{aligned} 4x-5y-6z&=-1\\ x-2y-5z&=-12\\ 2x-y&=7 \end{aligned}$

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

5. $\begin{aligned} x+y+3z&=2\\ 3x+4y+10z&=5\\ x+2y+4z&=3 \end{aligned}$

6. $\begin{aligned} x+2z&=1\\ 3x+2y+4&=7\\ 2x+y+3z&=4 \end{aligned}$

Solve the system using Cramer's Rule.

7. $\begin{aligned} 2x+y&=9\\ 2x+3y&=19 \end{aligned}$

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

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

Solve the system of equations by using an inverse matrix:

10. $\begin{aligned} x+2y&=-2\\ 3x-4y&=9 \end{aligned}$

11. $\begin{aligned} 2x-3y&=-13\\ 4x+y&=-5 \end{aligned}$

12. $\begin{aligned} 6x+5y&=13\\ 5x+4y&=10 \end{aligned}$