Week 12 Lab assignment

Problem Z.

$$X-y+z=4$$
 $2x+y+z=7$ 
 $-x-2y+2z=-1$ 
 $2x+y+z=7$ 
 $-1-z=2$ 

12 Sale Assignment

$$D = \begin{vmatrix}
1 & -1 & | \\
2 & | & | \\
-1 & -2 & 2
\end{vmatrix}$$

$$D = [1(2-(-2))] - [(-1)(4-(-1))] + [1((4)-(-1))]$$

$$D = 4 + 5 - 3$$

$$D = 6$$

$$D_{z} = \begin{vmatrix} 1 - 1 & 4 \\ 2 & 1 & 7 \\ -1 - 2 & -1 \end{vmatrix}$$

$$D_{z} = b$$

$$D_{z} = \frac{D_{z}}{D} = \frac{b}{b} = 1$$

$$X = \frac{Dx}{D} = \frac{18}{6} = 3$$

$$y = \frac{Dy}{D} = \frac{D}{b} = D$$