107 (Partial) Solution Manual

1 Matrices and Determinants

1.1 Systems of Linear Equations

2. Solve the system:

x = 0, y = 0, z = 0

Solve the system:

15. Solve the system:

 x_4 and x_5 are free variables, while $x_1 = -7x_4 + 4x_5$, $x_2 = -9x_4 + 5x_5$, $x_3 = -4x_4 + 4x_5$

Determine conditions on α, b, and c, so that system is consistent:

Thus, $c + b - a \equiv 0$ for the system to be consistent.

Determine conditions on σ, b, ε, and d, so that system is consistent:

$$\begin{bmatrix} 1 & 1 & 1 & -1 & a \\ 1 & -1 & -1 & 1 & b \\ 1 & 1 & 1 & 1 & c \\ 1 & -1 & 1 & 1 & d \end{bmatrix} \rightarrow_{cref} \begin{bmatrix} 1 & 0 & 0 & 0 & \frac{1}{2}(a+b) \\ 0 & 1 & 0 & 0 & \frac{1}{2}(c-d) \\ 0 & 0 & 1 & 0 & \frac{1}{2}(c-d) \\ 0 & 0 & 0 & 1 & \frac{1}{2}(c-a) \end{bmatrix}$$

Thus, there are no conditions on a, b, c, and d for the system to be consistent.

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Lauren Gardner

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