

Matrix Algebra

Lesson 1

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Problem 1.1

a

$$\begin{bmatrix} -1 \\ 0 \\ 1 \end{bmatrix}$$

b

$$\begin{bmatrix} 2 & 4 & 6 \end{bmatrix}$$

c

4

d

$$\begin{bmatrix} -2 & 0 & 2 \\ -4 & 0 & 4 \\ -6 & 0 & 6 \end{bmatrix}$$

Problem 1.2

a

$$\begin{bmatrix} 1 & 1 & 1 \\ 0 & 1 & 0 \end{bmatrix}$$

b

$$\begin{bmatrix} 0 & 0 \\ 3 & 1 \\ 3 & 1 \end{bmatrix}$$

c

$$\begin{bmatrix} -1 & 0 & -1 \\ 2 & 0 & 1 \\ 0 & 2 & 1 \end{bmatrix}$$

d

$$\begin{bmatrix} 2 & 0 & -2 \\ 2 & 0 & -2 \\ -2 & 0 & 2 \end{bmatrix}$$

Problem 1.3

a

$$4$$

Problem 1.4

a

$$x = 3$$

$$y = 1.5$$

$$z = -.5$$