

Matrix Addition Quiz

What is the value of the ij th element of Matrix D if:

$$D = A + B - C$$

a. $i = 2, j = 3$

b. $i = 3, j = 1$

$$A = \begin{bmatrix} 3 & 0.6 & 4 & -3 \\ -1.3 & 4 & 0 & 8.6 \\ 7 & 0 & -8 & 0.006 \end{bmatrix}$$

$$B = \begin{bmatrix} 3 & -5.76 & 45 & 0 \\ 2 & -2 & 1.3 & 9 \\ -9 & 0 & 0 & 0 \end{bmatrix}$$

$$C = \begin{bmatrix} 0 & 1009 & -66.7849 & 90 \\ 0 & 5 & 4 & -0.07 \\ -7.7 & 0 & 0 & 0 \end{bmatrix}$$

Answer:

a. -2.7

b. 5.7