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: 5 #. 1.1.1 Special Matrices Definition 1.1.5 1. A matrix in which each entry is zero is called a zero-matrix, denoted by  $0$ . For example,  $0_{2 \times 2} = \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$  and  $0_{2 \times 3} = \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$ .

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