

obtained simply by writing down what the matrix multiplication on the left means:

$$\begin{aligned} 1 \cdot a_{11} + 3 \cdot a_{21} + 2 \cdot a_{31} &= 7 \\ 1 \cdot a_{12} + 3 \cdot a_{22} + 2 \cdot a_{32} &= 1 \\ 1 \cdot a_{13} + 3 \cdot a_{23} + 2 \cdot a_{33} &= 3 \\ 2 \cdot a_{11} + 1 \cdot a_{21} + 1 \cdot a_{31} &= 1 \\ 2 \cdot a_{12} + 1 \cdot a_{22} + 1 \cdot a_{32} &= 0 \\ 2 \cdot a_{13} + 1 \cdot a_{23} + 1 \cdot a_{33} &= 3 \\ 4 \cdot a_{11} + 0 \cdot a_{21} + 3 \cdot a_{31} &= -1 \\ 4 \cdot a_{12} + 0 \cdot a_{22} + 3 \cdot a_{32} &= -3 \\ 4 \cdot a_{13} + 0 \cdot a_{23} + 3 \cdot a_{33} &= 7 \end{aligned}$$

This is really not as bad as it looks, since each variable only appears in three equations. For example, the first, fourth, and seventh equations are a system of three equations in the three variables a_{11} , a_{21} , and a_{31} . We can solve them using standard algebraic techniques to obtain $a_{11} = -1$, $a_{21} = 2$ and $a_{31} = 1$. By similar reasoning we also obtain $a_{12} = 0$, $a_{22} = 1$ and $a_{32} = -1$; and $a_{13} = 1$, $a_{23} = 0$ and $a_{33} = 1$. Thus our answer is

$$\mathbf{A} = \begin{bmatrix} -1 & 0 & 1 \\ 2 & 1 & 0 \\ 1 & -1 & 1 \end{bmatrix}.$$

As a check we can carry out the matrix multiplication and verify that we obtain the given right-hand side.

8. Since the entries of $\mathbf{A} + \mathbf{B}$ are $a_{ij} + b_{ij}$ and the entries of $\mathbf{B} + \mathbf{A}$ are $b_{ij} + a_{ij}$, that $\mathbf{A} + \mathbf{B} = \mathbf{B} + \mathbf{A}$ follows from the commutativity of addition of real numbers.
10. a) This product is a 3×5 matrix.
 b) This is not defined since the number of columns of \mathbf{B} does not equal the number of rows of \mathbf{A} .
 c) This product is a 3×4 matrix.
 d) This is not defined since the number of columns of \mathbf{C} does not equal the number of rows of \mathbf{A} .
 e) This is not defined since the number of columns of \mathbf{B} does not equal the number of rows of \mathbf{C} .
 f) This product is a 4×5 matrix.
12. We use the definition of matrix addition and multiplication. All summations here are from 1 to k .
 a) $(\mathbf{A} + \mathbf{B})\mathbf{C} = [\sum (a_{iq} + b_{iq})c_{qj}] = [\sum a_{iq}c_{qj} + \sum b_{iq}c_{qj}] = \mathbf{AC} + \mathbf{BC}$
 b) $\mathbf{C}(\mathbf{A} + \mathbf{B}) = [\sum c_{iq}(a_{qj} + b_{qj})] = [\sum c_{iq}a_{qj} + \sum c_{iq}b_{qj}] = \mathbf{CA} + \mathbf{CB}$
14. Let \mathbf{A} and \mathbf{B} be two diagonal $n \times n$ matrices. Let $\mathbf{C} = [c_{ij}]$ be the product \mathbf{AB} . From the definition of matrix multiplication, $c_{ij} = \sum a_{iq}b_{qj}$. Now all the terms a_{iq} in this expression are 0 except for $q = i$, so $c_{ij} = a_{ii}b_{ij}$. But $b_{ij} = 0$ unless $i = j$, so the only nonzero entries of \mathbf{C} are the diagonal entries $c_{ii} = a_{ii}b_{ii}$.
16. The $(i, j)^{\text{th}}$ entry of $(\mathbf{A}^t)^t$ is the $(j, i)^{\text{th}}$ entry of \mathbf{A}^t , which is the $(i, j)^{\text{th}}$ entry of \mathbf{A} .
18. We need to multiply these two matrices together in both directions and check that both products are \mathbf{I}_3 . Indeed, they are.
20. a) Using Exercise 19, noting that $ad - bc = -5$, we write down the inverse immediately:

$$\begin{bmatrix} -3/5 & 2/5 \\ 1/5 & 1/5 \end{bmatrix}.$$

Mathematics And Its History Solutions Manual

Victor M. Corman



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