




< Previous


 ✓

 ✓

 ✓

Next >

3.1.3 What You will Learn

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3.1.3 What You will Learn

Upon completion of this unit, you should be able to

- Recognize matrix-vector multiplication as a linear combination of the columns of the matrix.
- Given a linear transformation, determine the matrix that represents it.
- Given a matrix, determine the linear transformation that it represents.
- Connect special linear transformations to special matrices.
- Identify special matrices such as the zero matrix, the identity matrix, diagonal matrices, triangular matrices, and symmetric matrices.
- Transpose a matrix.
- Scale and add matrices.
- Exploit properties of special matrices.
- Extrapolate from concrete computation to algorithms for matrix-vector multiplication.
- Partition (slice and dice) matrices with and without special properties.
- Use partitioned matrices and vectors to represent algorithms for matrix-vector multiplication.
- Use partitioned matrices and vectors to represent algorithms in code.

< Previous

Next >



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