

- Perform matrix-matrix multiplication with partitioned matrices.
- ullet Identify, apply, and prove properties of matrix-matrix multiplication, such as $\left(AB
 ight)^T=B^TA^T$.
- Exploit special structure of matrices to perform matrix-matrix multiplication with special matrices, such as identity, triangular, and diagonal matrices.
- Identify whether or not matrix-matrix multiplication preserves special properties in matrices, such as symmetric and triangular structure.
- Express a matrix-matrix multiplication in terms of matrix-vector multiplications, row vector times matrix multiplications, and rank-1 updates.
- Appreciate how partitioned matrix-matrix multiplication enables high performance. (Optional, as part of the enrichment.)

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