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# Associative Law for Matrix Multiplication

Prove the associative law for matrix multiplication. That is, let  $A$  be an  $m$ -by- $n$  matrix,  $B$  an  $n$ -by- $p$  matrix, and  $C$  a  $p$ -by- $q$  matrix. Then prove that  $A(BC) = (AB)C$ .

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