

If A is 3 × 3 non singular matrix such that $AA^T = A^TA$ and $B = A^{-1}A^T$, then BB^T equals:



Solution.

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 $= A^{-1}A^{T}A(A^{-1})^{T}$

 $= A^{-1}AA^{T}(A^{-1})^{T}$

 $= IA^T(A^{-1})^T$

=I

$$(A^{-1})^T = (A^T)^{-1}$$



 B^{-1}



