

# Lectures [sic] notes on the T(1) theorem

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## Lectures [sic] notes on the T(1) theorem (1989 edition)

It is clearly that  $f \in A$  and  $f \in B$  since  $U_p \times B$  for any  $p \in \mathbb{N}$ .

## lecture notes on the Cayley

Then for any two disjoint closed sets  $A, B$ ,  $W \cap B$  is closed with  $A \cap W$ .

## Lecture notes, lecture Separation Axioms

So if  $A$  is a  $3 \times 3$  matrix then  $A^2, A^3$ , indeed every power of  $A$  will also be a  $3 \times 3$  matrix. If a regular space is also second countable, it is normal.

## Lecture notes, lecture Separation Axioms

If  $X$  is normal, and  $A \cap W$  with  $A$  closed and  $W$  open. Let us summarize these findings. Since  $U_0$  with  $U_0$  open and closed, and  $X$  is normal, there is an open set such that  $U_0$ .

## Lectures [sic] notes on the T(1) theorem (1989 edition)

Let  $P = 2k_m N, 1 \leq k_m \leq 1$  odd. For any  $r \in P$ , we will construct an open set  $U_r$  such that  $U_r \cap U_s = \emptyset$  if  $r \neq s$ . Only one is possible:  $b_0, b_1, \dots, b_{n-1}$  must be precisely the coefficients of the characteristic polynomial of  $A$ . Third Separation Axiom, regular space.

## Lectures [sic] notes on the T(1) theorem (1989 edition)

Tietz extension theorem holds for normal spaces. . Since this is true for every column of the above matrices, it is certainly true for the full matrix — and that is the precisely the conclusion of the Cayley-Hamilton theorem.



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