Cayley-Hamilton theorem

Canonical name	CayleyHamiltonTheorem
Date of creation	2013-03-22 12:17:43
Last modified on	2013-03-22 12:17:43
Owner	akrowne (2)
Last modified by	akrowne (2)
Numerical id	4
Author	akrowne (2)
Entry type	Theorem
Classification	msc 15A15
Classification	msc 15A18

Let T be a linear operator on a finite-dimensional vector space V, and let $c(t)$ be the characteristic polynomial of T. Then $c(T) = T_0$, where T_0 is the zero transformation. In other words, T satisfies its own characteristic equation.