



totally positive matrix

Canonical name	TotallyPositiveMatrix
Date of creation	2013-03-22 17:23:28
Last modified on	2013-03-22 17:23:28
Owner	Mathprof (13753)
Last modified by	Mathprof (13753)
Numerical id	7
Author	Mathprof (13753)
Entry type	Definition
Classification	msc 15A48
Defines	totally positive

An $n \times n$ matrix over \mathbb{R} is said to be \mathcal{P} if the determinant of every square submatrix is positive. Hence, the determinant and every element of the matrix are positive.