

# Determinant of a particular symmetric matrix

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  - *Date:* Fri, 27 Jan 2006 08:45:31 EST
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Hi all,

My problem is the following.

I have a symmetric  $n \times n$  matrix, which contains only positive values.

Each value on the main diagonal is equal to 1, and other values  $v$  are such that  $0 < v < 1$ .

Numerically, it seems that the determinant of such a matrix

is always different from 0, so that it always has an inverse (very interesting to me).

I'd like to know if there exist a proof of this property (if it's true).

If someone could help me...

thanks.

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- *Follow-Ups:*

- ◆ ***Re: Determinant of a particular symmetric matrix***  
◇ *From:* Zdislav V. Kovarik
- ◆ ***Re: Determinant of a particular symmetric matrix***  
◇ *From:* Alois Steindl
- ◆ ***Re: Determinant of a particular symmetric matrix***  
◇ *From:* Zdislav V. Kovarik

- Prev by Date: ***Re: Newton Solver library needed***
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