

two two

October 18, 2024

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1 Theorem

For a square matrix A , if A has a row or column of zeros, then $\det(A) = 0$

2 Theorem

For a square matrix A , $\det(A) = \det(A^T)$

3 Theorem

If B is constructed from A by switching 2 rows of A , then $\det(B) = -\det(A)$

4 Theorem

If B is constructed from A by multiplying a row of A by a number k then $\det(B) = k\det(A)$

5 Theorem

If B is constructed from A by replacing a row of A with the sum of itself and a multiple of another row, then $\det(B) = \det(A)$