31. Determinants: "Work Day"

Exercise. Use an undergraduate text on Linear Algebra to:

1. Define the *determinant of a matrix*.

2. List the main properties/theorems on determinants.

3. Choose the five most important properties.

4. Give a numerical example demonstrating each important property listed.

5. Discuss the relation between *determinant of a matrix* and *nonsingularity of a linear transformation*.