UNIVERSITY
MATHEMATICS 2

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$$A = \begin{vmatrix} a & b & c \\ d & e & f \\ g & h & I \end{vmatrix}$$

$$= a \begin{vmatrix} e & f \\ h & I \end{vmatrix} - b \begin{vmatrix} d & f \\ g & I \end{vmatrix} + c \begin{vmatrix} d & e \\ g & h \end{vmatrix}$$

OLANIYI EVANS

- Differentiation
- Logarithmic/Trigonometric Differentiation
- Multivariate Calculus
- Limits, Continuity & Differentiability
- Polynomials: Remainder & Factor Theorem
- Partial Fractions & Binomial Series
- Indefinite & Definite Integration
- Matrices & Determinants
- Matrices & Simultaneous Equations
- Quadratic Forms, Eigenvalues & Hessian
- Input-Output Analysis

- Partial & General Equilibrium Analysis
- Linear programming: Graphical Method
- Linear programming: Simplex
- Duality in Linear Programming
- Game Theory
- Nonlinear programming/Envelope Theorem
- 1st-order Differential Equations
- 1st-order Difference Equations
- 2nd-order differential/difference equations
- Simultaneous differential/difference equations
- Optimal Control Theory