

TOPIC 2. General theory of systems of linear algebraic equations.

Linear model of international trade

ТЕМА 2. Загальна теорія систем лінійних алгебраїчних рівнянь.

Лінійна модель міжнародної торгівлі

1. The definition of the system of linear algebraic equations.
2. An augmented matrix.
3. The definition of a solution.
4. A consistent or inconsistent system.
5. A determined or undetermined system.
6. The inverse matrix method of solving square systems of linear algebraic equations.
7. The Cramer method of solving square systems of linear algebraic equations.
8. The Gauss – Jordan method of sequential exclusion of unknowns for solving systems of linear algebraic equations.
9. The notion of the matrix rank.
10. Calculation of the matrix rank.
11. The Kronecker – Capelli theorem.
12. Particular and general solutions of a system of linear algebraic equations.
13. A homogeneous system of linear algebraic equations.
14. The space of solutions of a homogeneous system.
15. A fundamental system of solutions of a homogeneous system of linear algebraic equations.