

Lebanon Evangelical School for Boys and Girls

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Final Exams : June 2011

Please place on this sheet the contents of your course that you will be examining in your Final Exam. Details are expected. Chapter numbers, section headings and the like. A photocopy of what you send back to me will be sent to parents next week.

Teacher : B . Kordahi

Subject : Math (10B)

- 1) Chapter 8 (Vectors) : characteristics , equality , representation , translation , addition , difference of vectors . Opposite vectors . Multiplication of a vector by a number . Two vectors having the same direction .
- 2) Chapter 9 (Application on vector operations) : Collinear points , parallel lines , midpoint of a segment , centroid of a triangle .
- 3) Chapter 12 (Coordinate systems) : Lines and axes , coordinate planes , equality , addition and vectors of the same direction , geometric applications , translation of axes .
- 4) Chapter 13 (Lines in a coordinate plane) : Cartesian equations of a straight line , parametric equations of a straight line , relative position of two straight lines , line passing through a point and parallel to a given straight line .
- 5) Chapter 14 (Scalar product or dot product) : Scalar product of two vectors , properties of the scalar product , applications .
- 6) Chapter 15 (Analytic form of the scalar product) : Analytic expression , orthogonality , distance from a point to a straight line .
- 7) Chapter 17 (Linear inequalities in one unknown) : Inequalities of first degree in one unknown , systems of linear inequalities , inequalities that can be reduced to first degree , inequalities which contain an absolute value .
- 8) Chapter 18 (Linear systems) : Linear systems of two equalities in two unknowns , linear systems with parameters , graphical solutions , systems of linear inequalities .
- 9) Chapter 22 (Polynomials) : Definition , Degree and coefficients , zero polynomial , Equality of two polynomials , Factorizing polynomials , division of polynomials , Euclidean division (Long division Method) of polynomials , Synthetic division method , Identical polynomial method .