

Lebanon Evangelical School for Boys and Girls

Loueizeh - Baabda - Lebanon
P.O. Box 108 Hazmieh
Tel : 05 924 090/1
Fax : 05 924 089
email : admin@lesbg.com
http://www.lesbg.com



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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 (11S)

- 1) Chapter 7 (Vectors and coordinate systems in space) : vectors in space , coplanar vectors , basis and systems in space , analytic expressions of geometric properties , translation of axes , orientation in space .
- 2) Chapter 12 (Elementary trigonometric equations) : Solutions of equations of the form $\cos x = a$, $\sin x = a$, $\tan x = a$.
- 3) Chapter 13 (Trigonometric formulas) : Addition , double angle and tangent formulas ; linearization formulas , tangent of half the angle .
- 4) Chapter 14 (Continuous statistical variables) : grouping data in classes , frequency , relative frequency , cumulative frequency , graphical representation , mean , mode , median , variance standard deviation , modal class , mean class .
- 5) Chapter 16 (Permutations) : Factorial notation , permutations , permutations with repetition .
- 6) Chapter 20 (Sequences) : Arithmetic and geometric sequences , mathematical induction , sense of variations of a sequence .
- 7) Chapter 23 (Scalar product in space - vector product) : Scalar product , analytical expression norm , distance , angle , applications of the scalar product , vector product (cross product) , applications on the cross product .
- 8) Chapter 26 (Elementary trigonometric formulas) : discussions on the sine , cosine , tangent and cotangent functions with their graphical representations
- 9) Chapter 27 (Probability II) : probability , equiprobable spaces , properties of probabilities .
- 10) Chapter 28 (Anti-derivatives) : Operations on anti-derivatives , anti-derivatives of usual functions , anti-derivatives of trigonometric functions , method of change of variables , anti-derivatives satisfying initial value conditions .
- 11) Chapter 29 (Complex numbers) : Definitions and operations on complex numbers , conjugate and reciprocal of complex numbers , complex quadratic equations , geometric representation of a complex number .