

Scholastic Year : 2017-2018

Class : SE1 → SE2 (SC)

Math

Subject : Concepts required for the Math Make-up Exam

1. **Trigonometric Lines.**(Relation between degree and radian – length of an arc of a circle – Orientation of a circle – trigonometric circle - measure of an oriented arcs – principal determination of an arc – usage of the calculator – trigonometric lines in a right triangle and on a trigonometric circle – sign of trigonometric lines – remarkable arcs– associated arcs)
2. **Straight lines in a plane .**(Direction vector and vector of a straight line – parametric representation of a straight line – Cartesian Equation of a straight line – condition of parallelism of two straight lines – graph of a straight line –relative position of two straight lines)
3. **Scalar Product .**(analytic form and geometric form of scalar product)
4. **First Degree Equations in one unknown.**
(solving equations with absolute value – solving problems using first degree equations)
5. **Linear Inequalities in one unknown**
(solving inequalities and systems of inequalities in one unknown – solving problems using first degree inequalities)
6. **Study of functions .**
(Domain of definition – representative curve– parity of a function – sense of variation of a function – Extremum of a function – graphical reading and table of variations of a function – draw the representative curve of a function – graphical solution of an equation and an inequality – graphical comparison of two functions on an interval)
7. **Polynomials.**(null polynomial – equal polynomials – identical polynomials – reduce and order a polynomial - Operations on polynomials – Factorization of a polynomial – Euclidean division)
8. **Coordinate systems.**(Types of systems – coordinates of a point – coordinates of a vector – coordinates of midpoint and centroid – analytic expression of vector equality – translation of a system)
9. **Vectors.**(Sum of vectors - Multiplication of a vector by a real number – collinear vectors – collinear points)

10. **Space Geometry.**(Cavalier's perspective - plane representation of common solids : cube ; rectangular prism ; pyramid – determination of a plan – relative positions of a straight line and a plane - - relative positions of 2 straight lines in space - relative positions of 2 planes - parallelism in space)

حائزة على ترخيص:



حائزة على شهادة:



عضو في:

