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7. Mathematical Teaching in Higher Schools.

By virtue of the reform of the educational system in the country enforced in 1918, the object of Higher Schools as preparatory schools for universities in the old system was changed into that of giving the higher ordinary education to young men. The following are the main points modified in the mathematical course on the occasion:

(1) In the earlier educational system which was put into force in 1912, mathematical instruction in the First Division of the Preparatory Course for Universities in the Higher School was given to those only who wish to apply for admission to the Philosophical Course of the Literature Faculty, whereas in the present Literature Course of the Higher School, which corresponds to the First Division of the Higher School in the earlier system, mathematics is taught to all students. The substance of instruction, however, remains almost the same as in the earlier system, with the lesson hours a week raised from two to three hours.

(2) The Second and Third Divisions of the Preparatory Course for Universities in the Higher School in the earlier system have been incorporated into the Science Course in the new system. There had been considerable differences in the earlier system between the grades, contents and lesson hours of the mathematical teaching of the Second Division preparatory to the Science and Technical Faculties and those of the Third Division preparatory to the Medical Faculty. In the present Science Course of the Higher School, however, the whole mathematical course is conducted on a coordinated program, irrespective of the desired courses of advanced study in universities. Those who wish to enter the Agricultural and the Medical Faculties are relieved of dynamics. The substance of mathematics taught in the Science Course of the Higher School in the new system is much the same as in the Second Division of the earlier system.

(3) Solid geometry is a new insertion in the new program for mathematical teaching in Higher Schools, while the elementary theory of numbers, the continued fractions, the indeterminate equations and others have been omitted from the algebra course, and the differential equations from the course of the differential and integral calculus.

Main items of the new outlined program follows:

Literature Course (Lesson hours in the first year total about 90): Supplements to algebra and geometry, Trigonometry, Plane analytical geometry, Differential and integral calculus.

Science Course: Solid geometry (about 20 hours), Trigonometry (about 40 hours), Analytical geometry (plane and solid about 70 hours), Algebra (about 60 hours), Differential and integral calculus (about 170 hours), Dynamics (about 60 hours).