Faculty of Science	*differential equations*
Department of Mathematic.	*Second term exam*

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تناول بالبحث احد الموضوعات الاتية:

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(1)   Solution of differential equation from first order and its applications.

(2) Homogeneous and exact differential equation.

(3) First order linear differential equation and Bernoulli differential equation

(4) Solution of the homogeneous differential equation with constant coefficients from second order.

(5) Solution of the high order homogeneous differential equation with constant coefficients.

(6) Solution of Cauchy – Euler differential equation.

(7) Integrating Factor to change non-exact differential equation to be exact.

(8) Variation of parameter method to get special solution of a nonhomogeneous differential equation of the second order.

(9) the relation between Wroneskien and linearity of the solutions of differential equation and the solution set of it.

(10) comparison between Variation of parameter method and Solution of Cauchy – Euler method.