

من خلال دراستك لمادة الدوال والدوال الخاصة تناول بالشرح بالتفصيل احد الموضوعات التالية :-

- 1- Gamma and Beta functions , give some applied examples.
- 2- Legendre's polynomials , give some applied examples.
- 3- Hermite's polynomials and function , give some applied examples.
- 4- Laguerre's polynomials , give some applied examples.
- 5- Bessel functions , give some applied examples.
- 6- Hypergeometric function, give some applied examples.
- 7- Series solutions of linear differential equations, give some applied examples.
- 8- The recurrence relations for (Legendre's polynomials – Laguerre's polynomials) , give some applied examples.
- 9- The orthogonal properties of all functions which you studied and give examples for them .
- 10- The recurrence relations for (Hermite's polynomials – Bessel functions) , give some applied examples.

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