إمتحان الفصل الدراسي الثاني ٢٠٢٠م

الفرقة: الثالثة كيمياء + فيزياء

المادة: معادلات تفاضلية ودوال خاصة





جامعة كفر الشيخ كلية العلوم قسم الرياضيات

## تناول بالبحث في أحد الموضوعات التالية:

- 1 Partial differential equation of power one Relation between Beta and Gamm functions.
- 2 Elementing arbitrary constants to get partial differential equation Legendres polynomials .
- 3 Solution of differential equation by using of series Legendrs differential equation .
- 4- The methods of Taylor series orthogonal properties of  $P_n$  (x) .
- 5 The concept of general Particular solution Gamm and B function .
- 6 The method of forbenius expansion of function in series of Legenders polynomials .
- 7 Bsel equation Hermites polynomial and functions.
- 8 Method of solving initial value problems Series of Hermiters ploynomials .
- 9 Classification of equations and boundary condition series solution about an ordinary point .
- 10 Finding solutions by using Laplace transformation Neumann function .

Dr/F.S. Helal