

Cálculo C2 - 2023.2

Aula 42: séries formais

Eduardo Ochs - RCN/PURO/UFF

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Links

[2hQ96](#) Quadros da aula 42 (2023nov29)

[BoyceDip5p4](#) (p.191) 5. Soluções em série para equações lineares de segunda ordem

[BoyceDip5p4](#) (p.191) 5.1. Revisão de séries de potências

[BoyceDipEng5p4](#) (p.189) 5 Series Solutions of Second-Order Linear Equations

[BoyceDipEng5p4](#) (p.189) 5.1 Review of Power Series

[BoyceDipEng5p10](#) (p.195) 5.2 Series Solutions Near an Ordinary Point, Part I

[BoyceDipEng5p20](#) (p.205) 5.3 Series Solutions Near an Ordinary Point, Part II

[BoyceDipEng5p26](#) (p.211) 5.4 Euler Equations; Regular Singular Points

[BoyceDipEng5p34](#) (p.219) 5.5 Series Solutions Near a Regular Singular Point, Part I

[BoyceDipEng5p39](#) (p.224) 5.6 Series Solutions Near a Regular Singular Point, Part II

[BoyceDipEng5p45](#) (p.230) 5.7 Bessel's Equation

(%i1) a : taylor (exp(x), x, 0, 4);

(%o1)

$$1 + x + \frac{x^2}{2} + \frac{x^3}{6} + \frac{x^4}{24} + \dots$$

(%i2) b : taylor (20*x^2 + 1, x, 0, 4);

(%o2)

$$1 + 20x^2 + \dots$$

(%i3) c : taylor (20*x^2 + 1, x, 0, 2);

(%o3)

$$1 + 20x^2 + \dots$$

(%i4) d : taylor (10*x, x, 0, 4);

(%o4)

$$10x + \dots$$

(%i5) a + b;

(%o5)

$$2 + x + \frac{41x^2}{2} + \frac{x^3}{6} + \frac{x^4}{24} + \dots$$

(%i6) a + c;

(%o6)

$$2 + x + \frac{41x^2}{2} + \dots$$

(%i7) a * d;

(%o7)

$$10x + 10x^2 + 5x^3 + \frac{5x^4}{3} + \dots$$

(%i8)