

Lecture 1

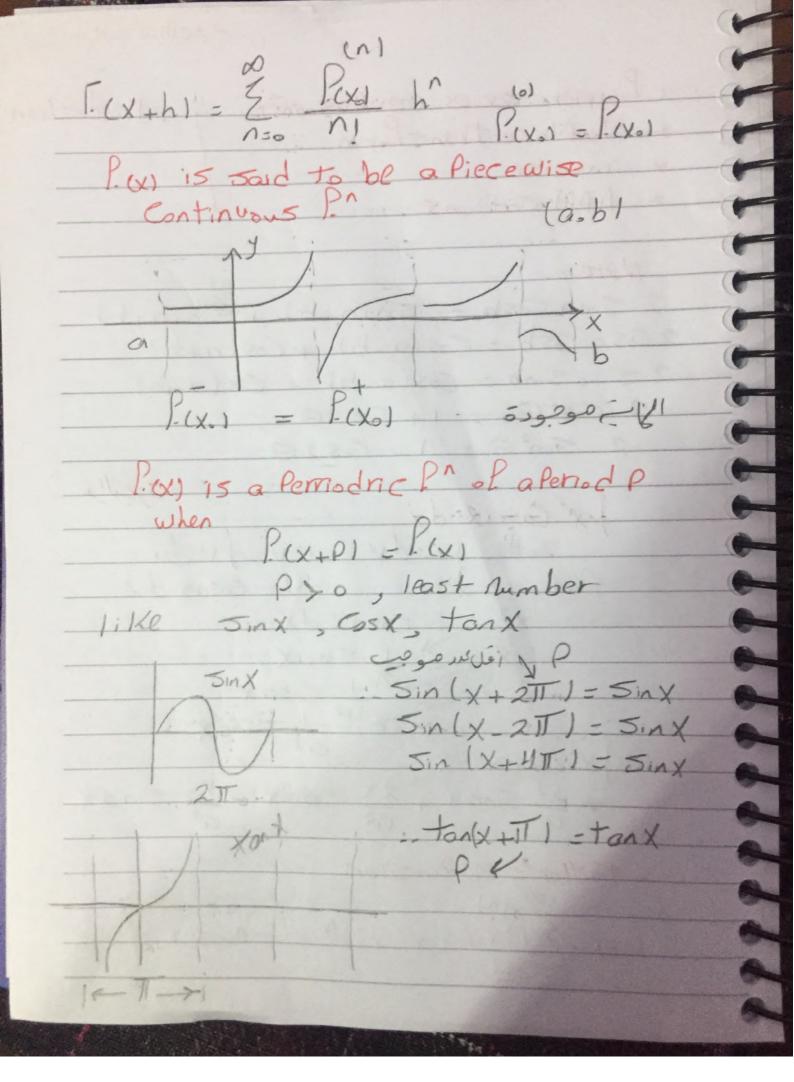
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(July all us aiply introduction x Fourier series (exponsions) * laplace transform & inverse & APPlications Note = 2 5 ma Cosb = Jin (a-b) + Jin (a+b) 2 65 a 65 b = Cos(a-b) + Cos(a+b) 2 5 ina 5 inb = Cos(a-b) - Cos(a+b) 2 Cos2 0 = 1+ Cos20 2 5in 0 - 1 - Cos 20 x Cosax dx Note Judy = uv - Judu Put u=x2 (dV = cosaxdx x2 + Cosax dx 2 X I Sinax 2 A-1 Cosax - Jx2 cosax dx a3 sinax = X2 Sinax + 2X Cosax - 2 Sinax * taylor's expansion Pex = { Pexol (x-xo) ^ 1=0,1,2,



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