

Lecture 1

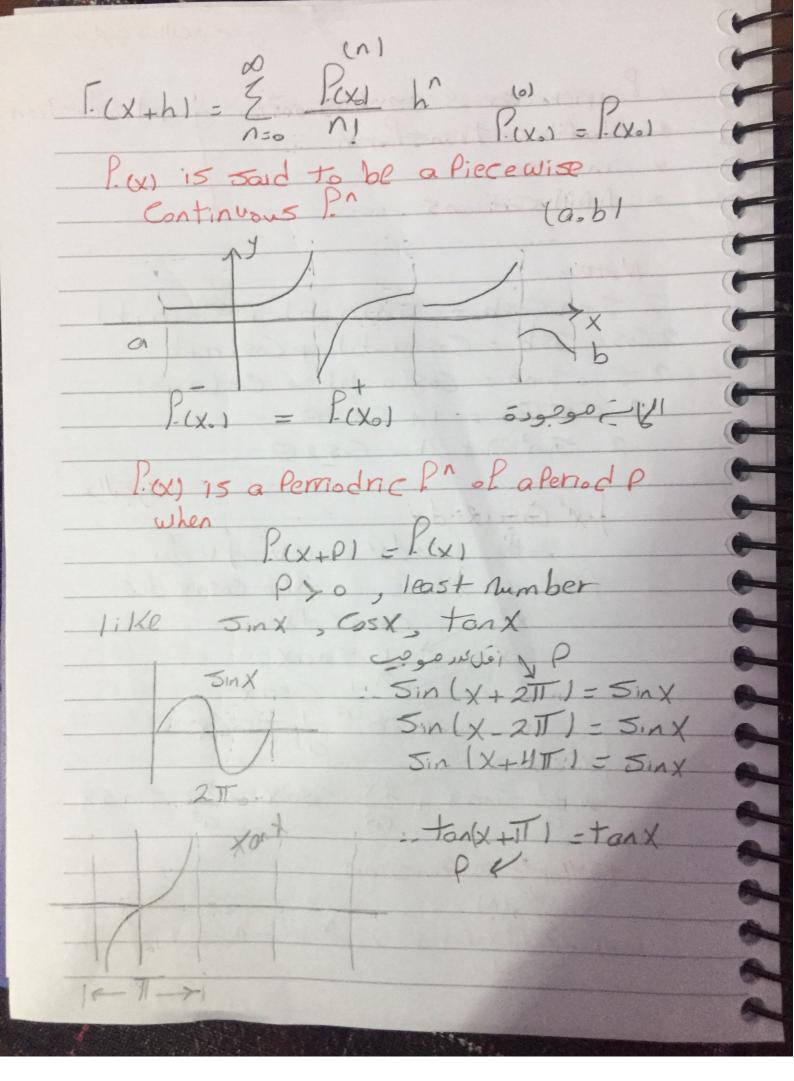
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(July all us aiply introduction x Fourier Series (expansions) * laplace transform & inverse & APPlications Note = 2 5 ma Cosb = 5 in (a-b) + 5 in (a+b) 2 Cosa Cosb = Cos(a-b) + Cos(a+b) 2 5 ina 5 inb = Cos(a-b) - Cos(a+b) 2 Cos2 () = 1+ Cos2() 2 5,020 - 1- 6520 x Cosax dx Note Judy = uv - Judu Put u = x2 dV = Cosaxdx X2 Cosax dx 2X 1 Sinax 2 1 Cosax '- X Cosax dx = X2 5 inax + 2X Cosax - 2 5 inax * taylor's expansion Pexi = { Pixol (x-xol) 1=0,1,2,



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