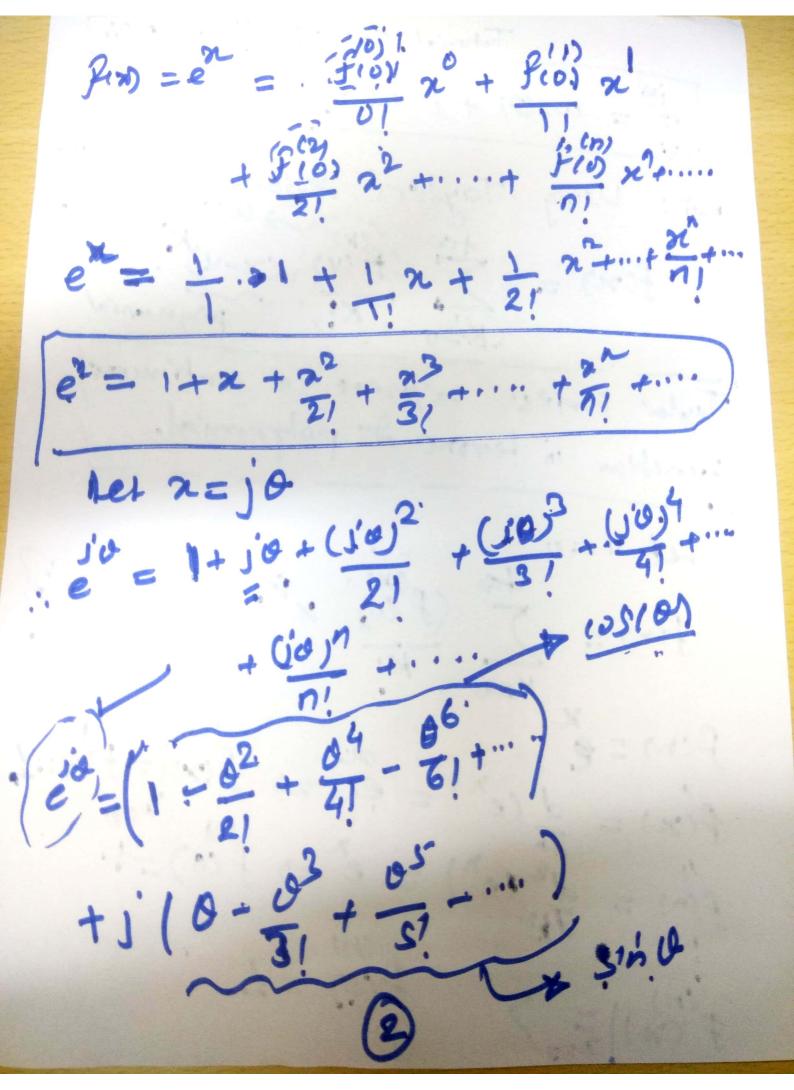
Tutorial. Class 1 Trestre 04 = ws(0) + j sin 0) Part: Using Taylors series. It golfgene fens = 500 (Fix) con-usk. sologne. Taylor series: express a continuous, function in terms of polynomial. fin) = 

tas (sener)

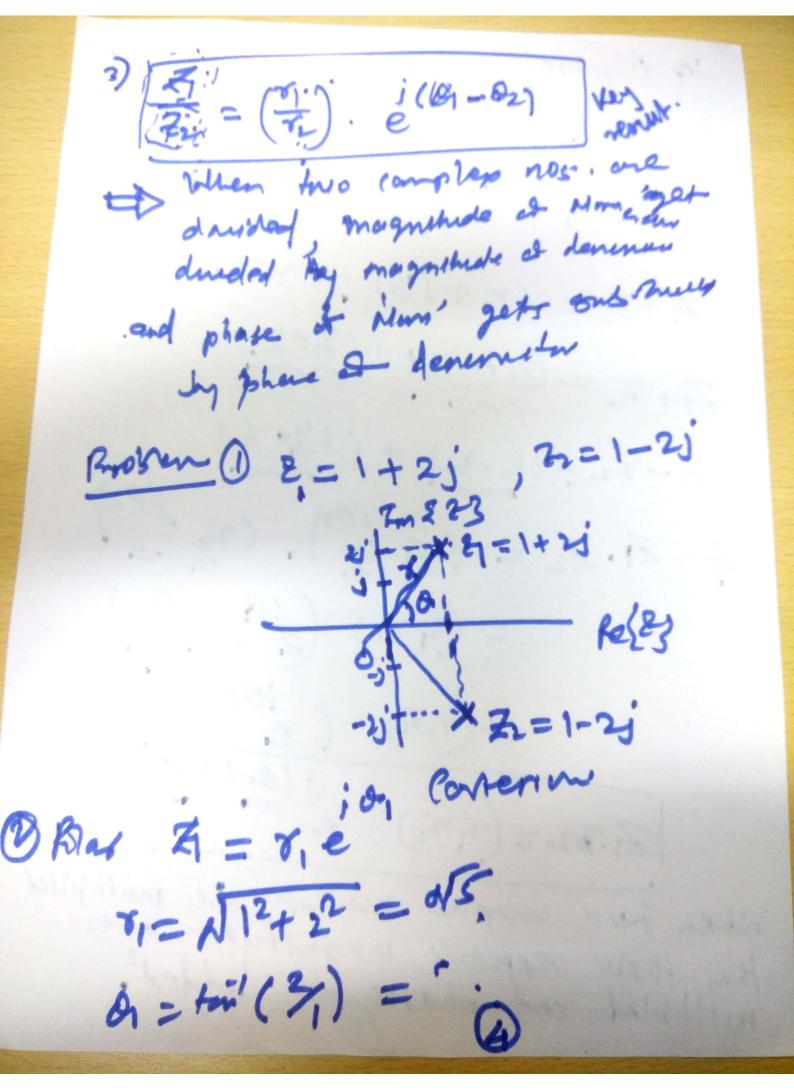
K=0

K f(n) = e  $f(n) = d(e^{\lambda}) = e^{-\frac{1}{2}} f(n) = f(n) =$ = e => f(0)=1. F(0) = 1 ずでれり 元の

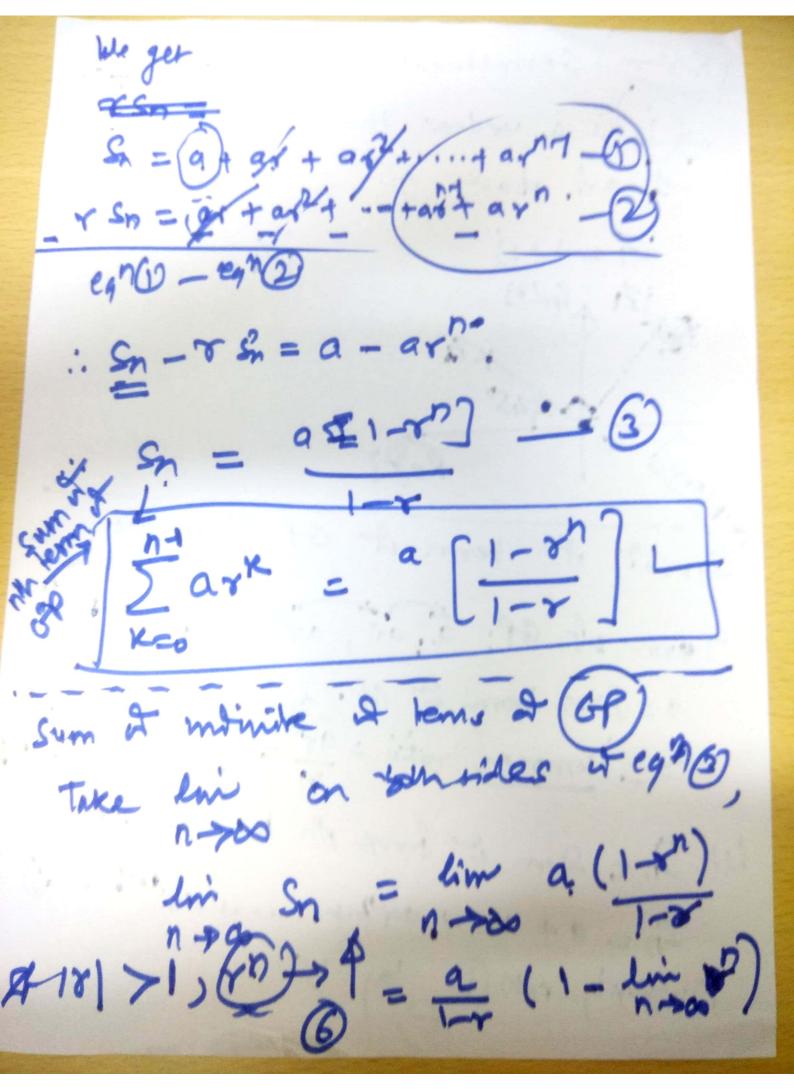


les Algebraic Openin en Complex Mules りるこれがり、 K2= 72+1 /2 22 = 72 e'02 石十五二(ルナゴか)ナーハナガノ スナる = (24tm) + 5 (3+2) オーマン: (かん) ナゴ(なん) 2) 7. 72 = ( T, e'), ( T2 e'2) = (MT) (e'd e'02) = (x, xy) ( = (x, x)) るなっこ(でか) とりはもらり) When two unspress number aire multiplied than their sespethic magnitudes are added?

Multipled and phoses are 'added'.

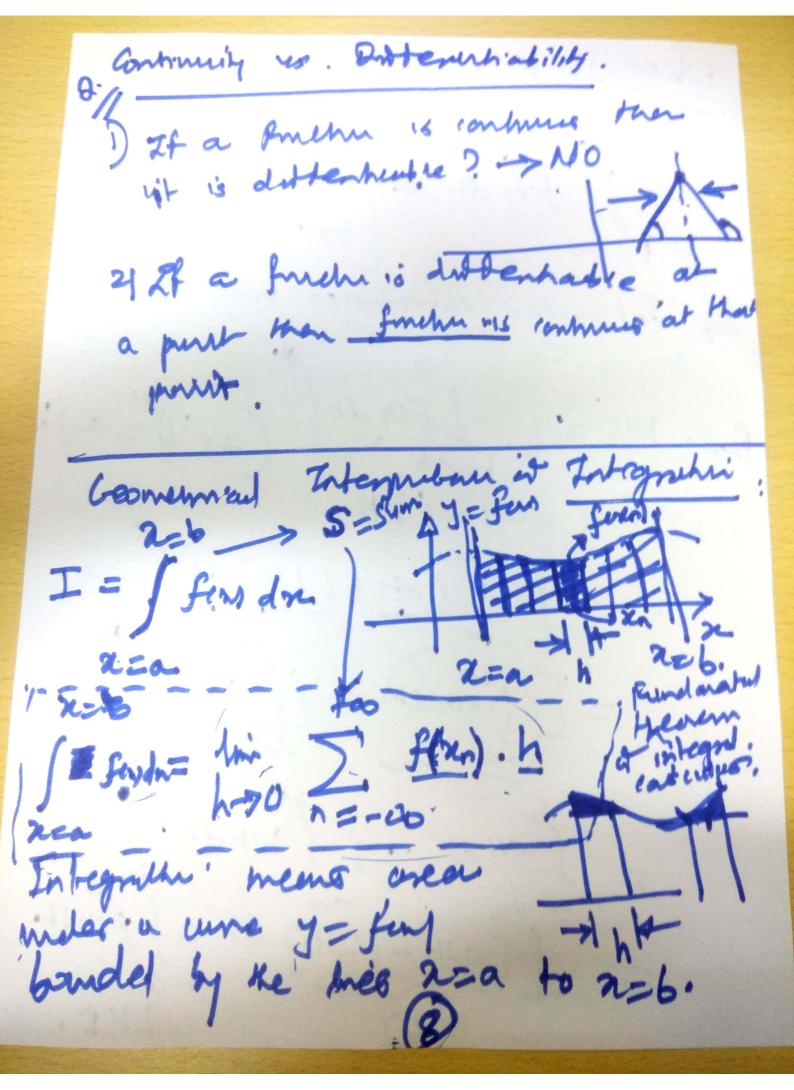


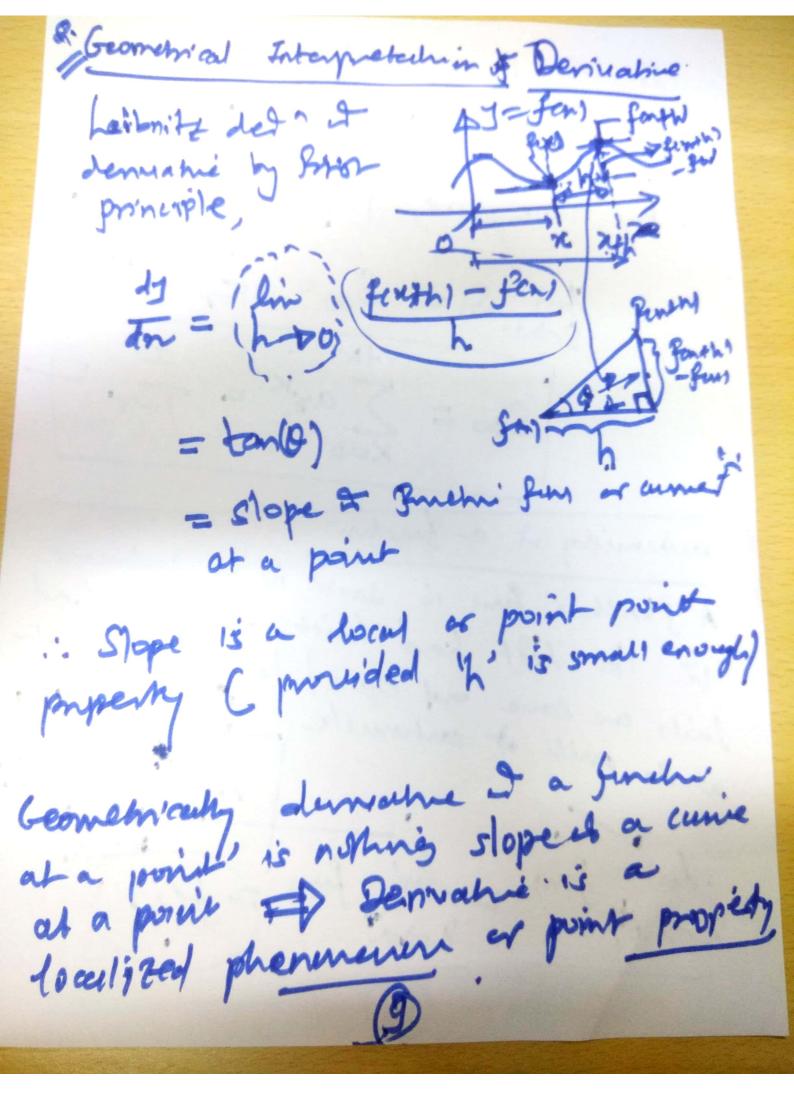
Robbin Germenial interneumi it just J) is a wedrer that has magnitude I and done go 7=1+1 jZ. Kerl) o Re 23 Sun et Ah term et GP (Geometric).
Rogression) Term of GP: a, ar, ar, ..., arno = Brit term of GP. 1, art = art Let Sn = Sum at from it temost up Sn = a + ar + ar2+ .... + arn+ -0 mumph ean OB of 81



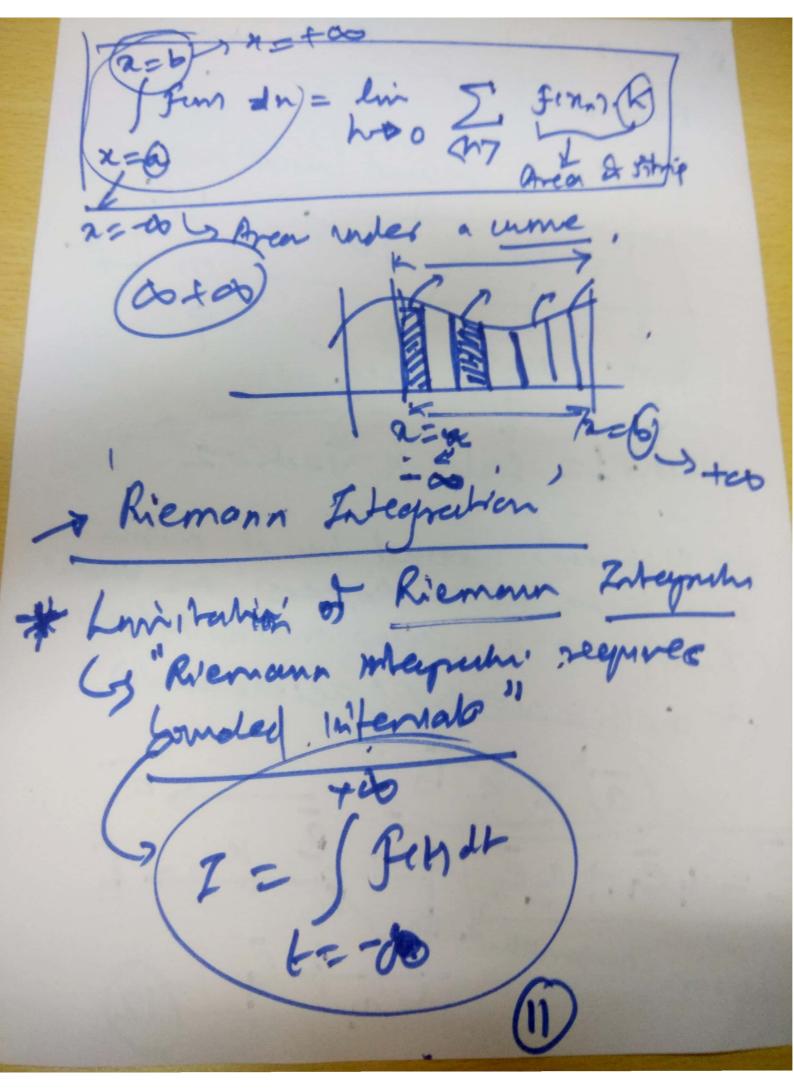
Prove that for a complex Funcher fens or full tetos findt = [findt]. t= -co Entegrahmi commutes with complex conjugation. to Boot. RHS = [ ] findt] (a+5) = a-jb

Let fett = all + j MH.) [ [ dt) + j.b(h) dt] = [ ( Jain at + j ) [ blin dt) to to = Saly at - j Shindt = { [ain-jbin] dt = | findt = LHS.

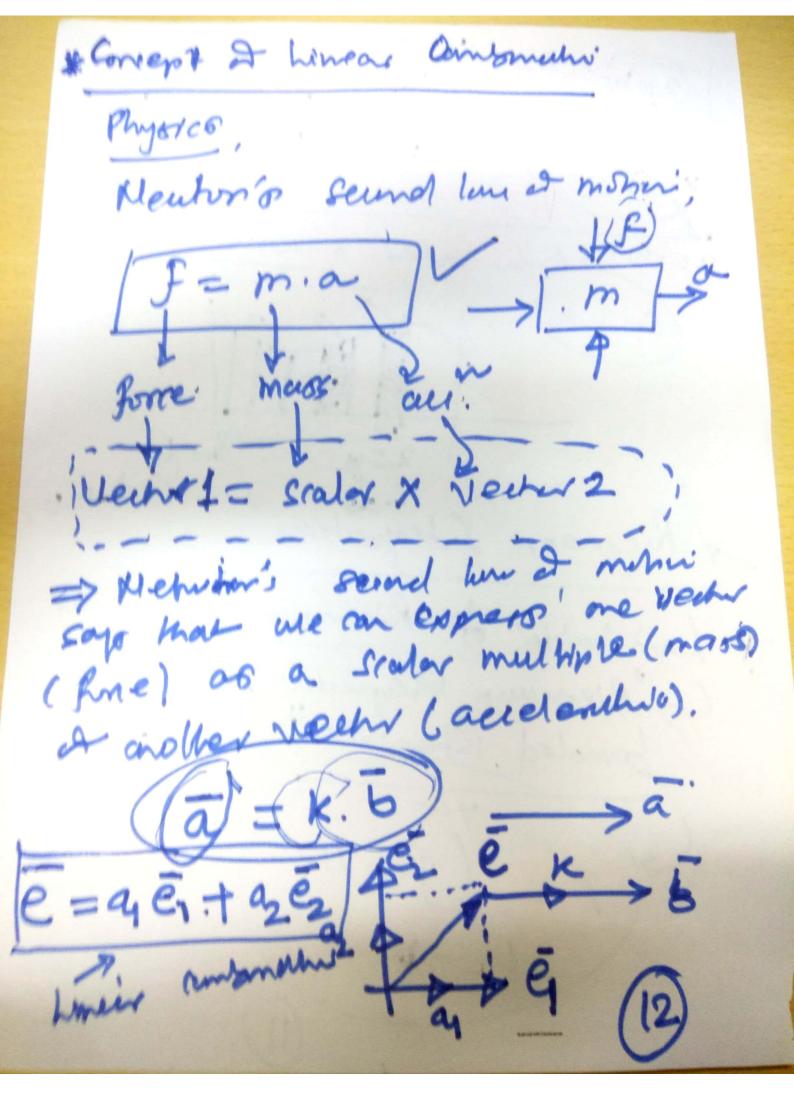


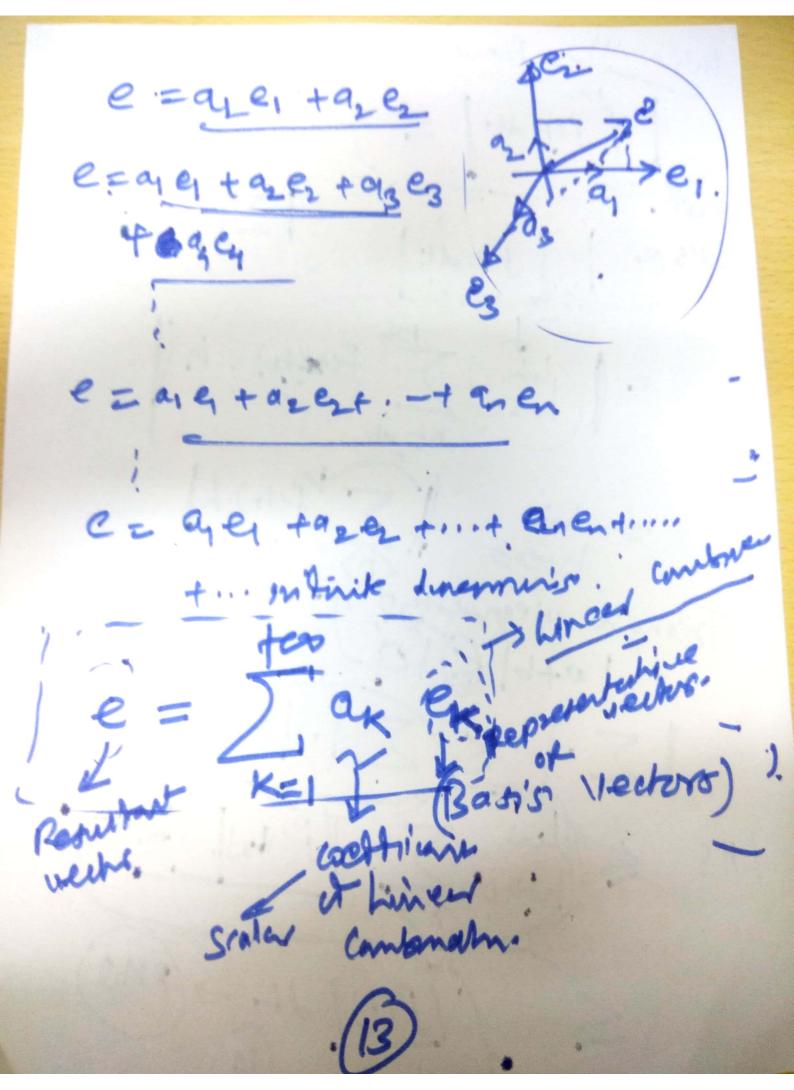


8+ 1r171 => 8n4 ai n-12 . Sin -> diverge as n -> as :. For amagance, 18/1/30 3+00 Sn = Soo = T-r [1-0]  $S_{00} = \sum_{k=0}^{+\infty} a_{0}^{k} = \frac{a}{1-\gamma}$ Continuity it a frethir A funche from 16 said to se commerce it its list had him and magnet had lnits are some and equal to furthering to see from ansat, fung = low fung = featja (10)



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