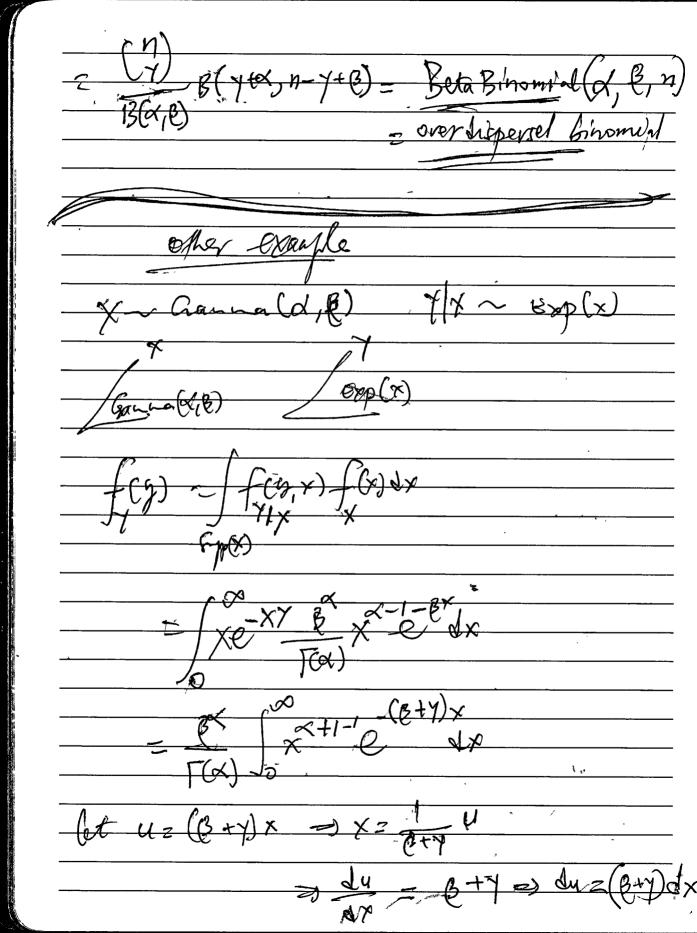
Juda Bin (h, x) ME



We replace everything and get of complex humbers +60.C 16 E 1/2 In (Z) = 6 1+ × + ×2 + its = 1 + x+x

Sin(x) =
$$x + -\frac{x^2}{2!} + \frac{x^5}{2!}$$

Cos(x) = $1 - \frac{x^2}{2!} + \frac{x^9}{4!} + \frac{x^9}{2!} + \frac{x^9}{4!}$

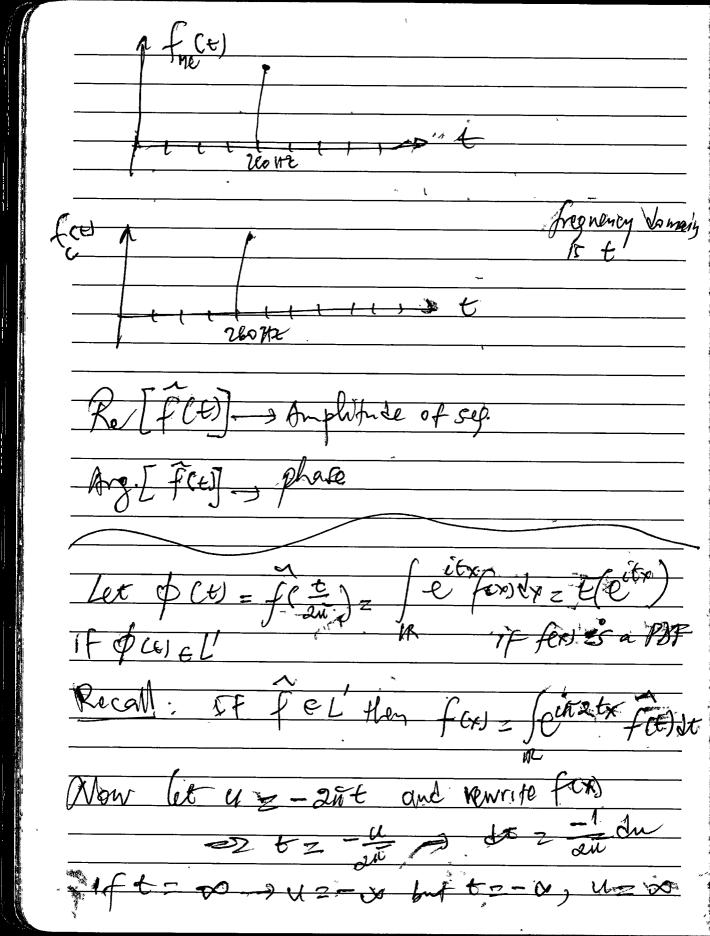
is in(bx) = $1 - \frac{x^2}{2!} + \frac{x^9}{4!} + \frac{x^9}{2!} + \frac{x^9}{4!}$

city = $1 - \frac{x^2}{2!} + \frac{x^9}{4!} + \frac{x^9}{4!} + \frac{x^9}{4!}$

city = $1 - \frac{x^9}{4!} + \frac{x^9}{4!} +$

z Natto (w) (ardan (a)) + i Sin (ardan (a))) :=) f: |f(x) | x < \$ \frac{1}{2} All gofs (PAFs) & L If fe-Litton If Sefines as = fe fix) Ix known as the Fourier

when transformation of f. Note & Joseph necessary & L' f(x) is called the time former F(t) B called frequency domain fine Comats is



 $f(x) = \left(\frac{u}{2\pi}\right)^{2\pi} \left(\frac{u}{2\pi}\right)^{-\frac{1}{2\pi}} du$ = 1 for fruider I for fow der hovertoristic funct of (2 emps) if x c Service of & Continuous [X, , X2 14d.] = X,+ Gex, = [eit(x,+xv)] = E[itx, itxz futx, 7 (t) (t) (x) (x)

