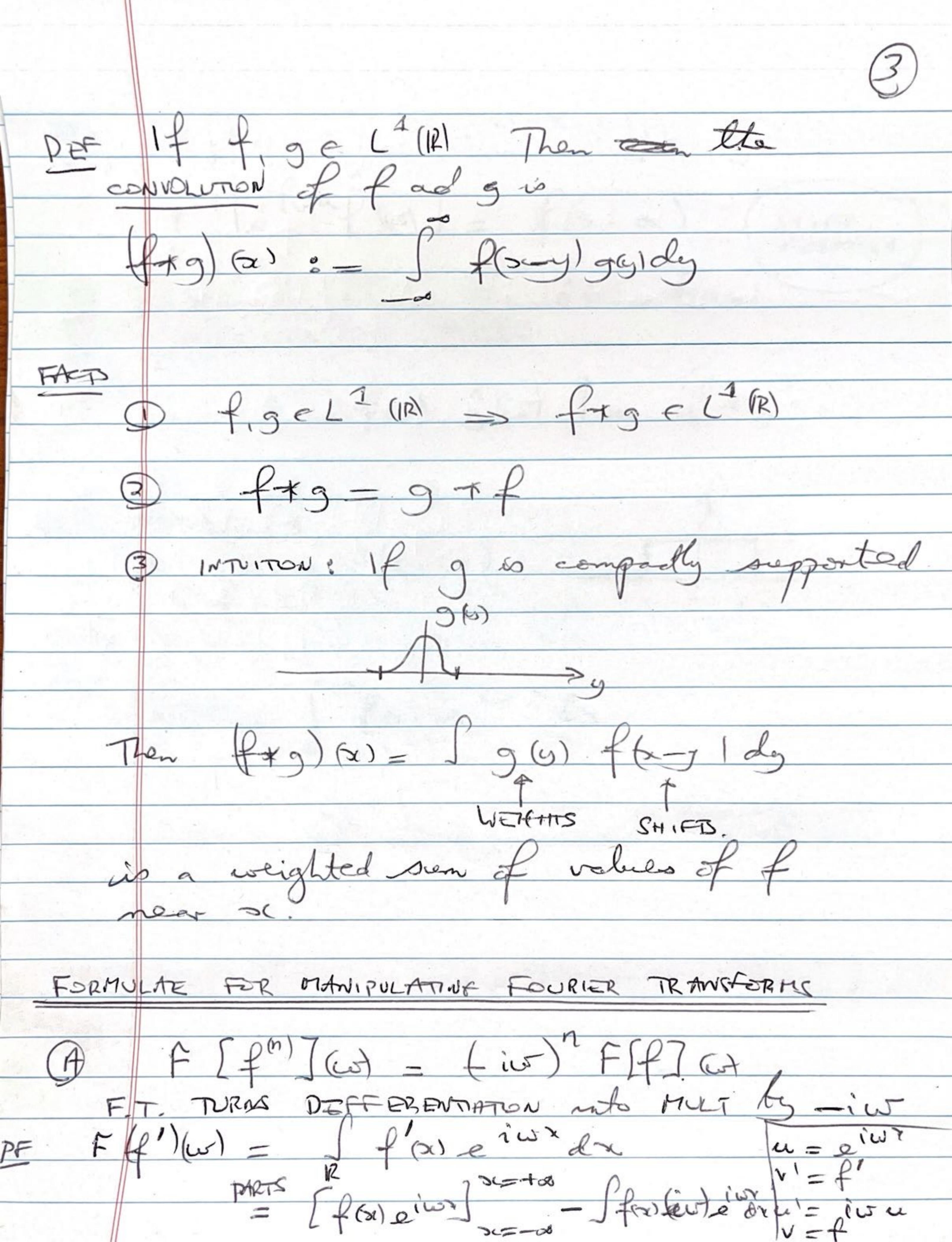
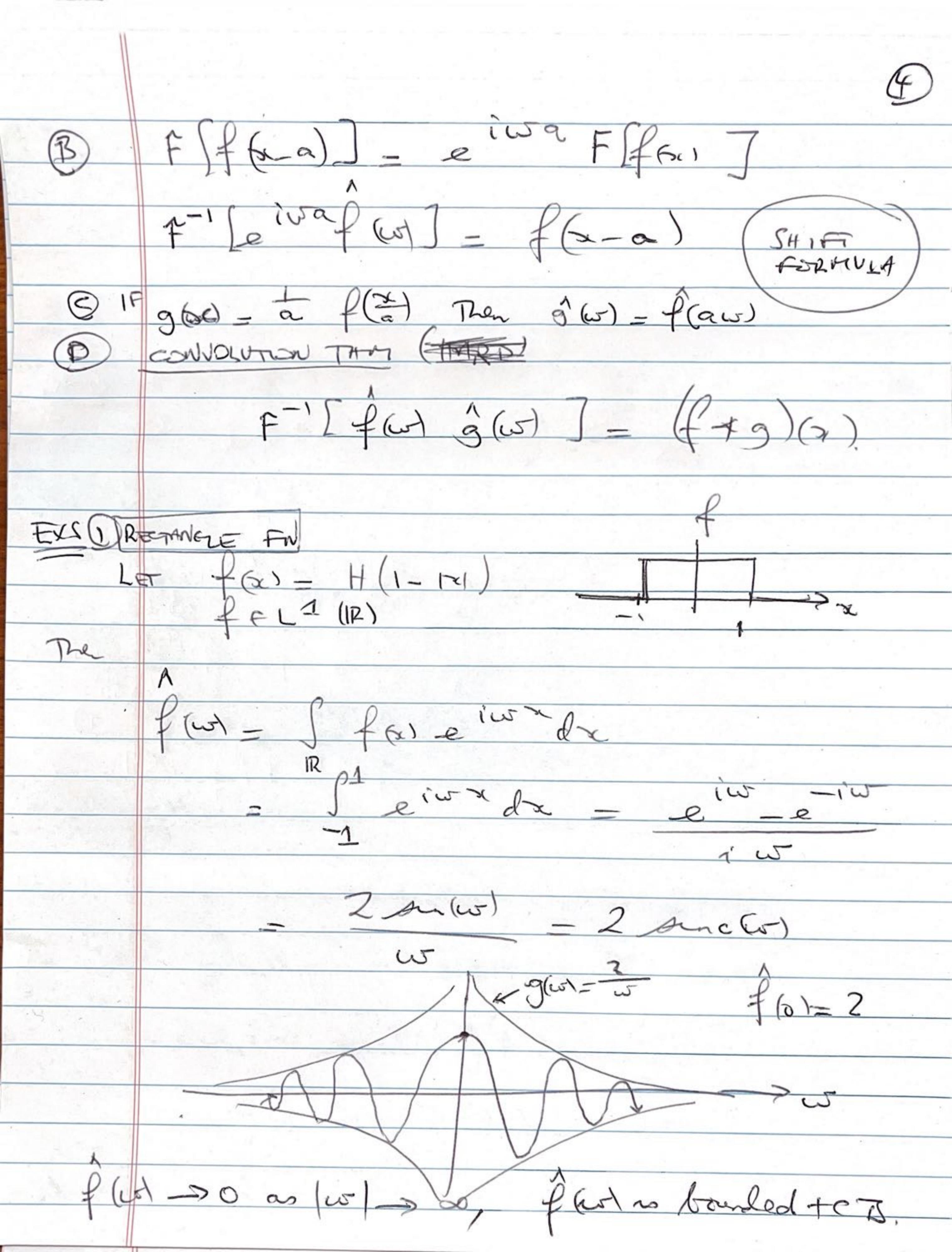


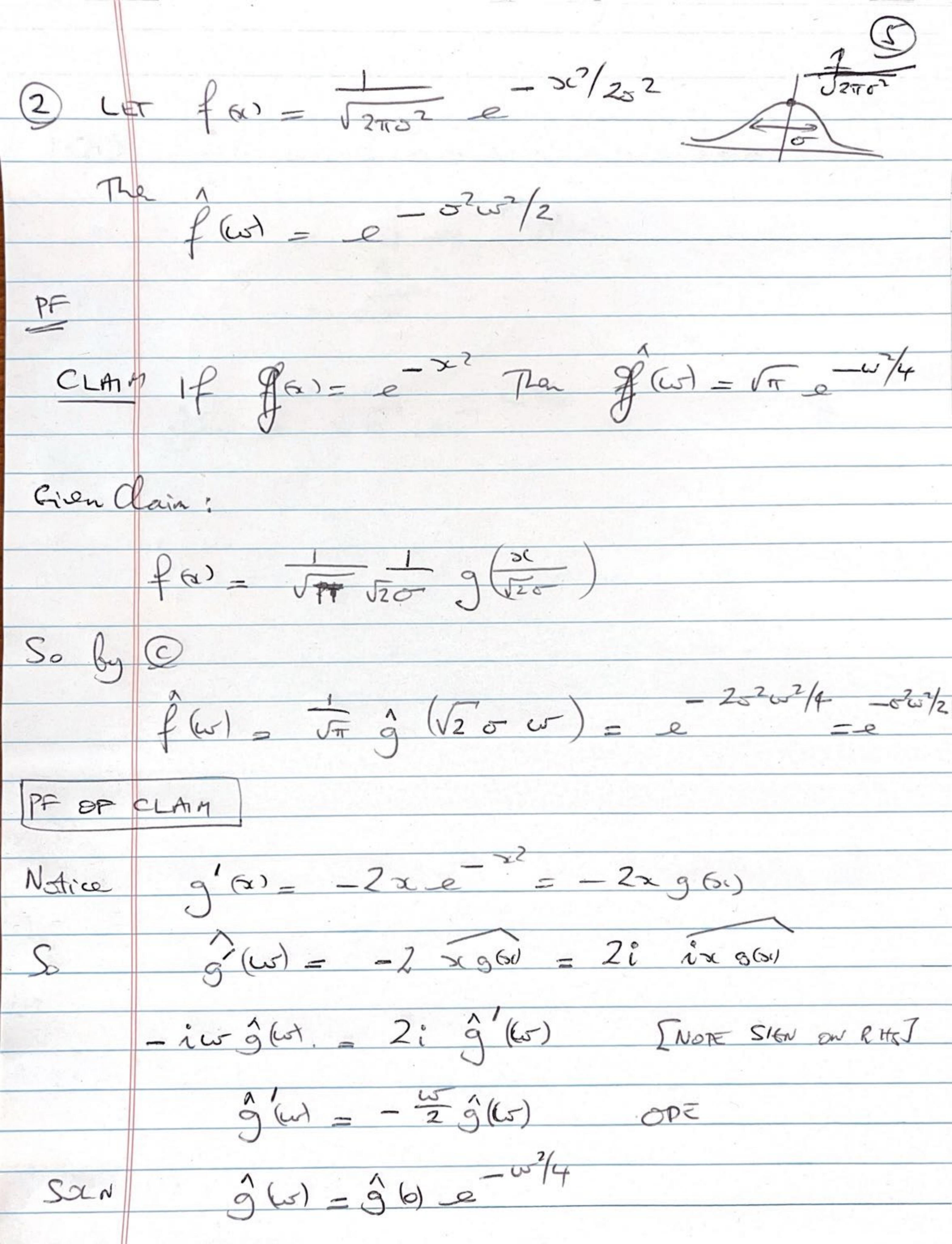
4) Since O me io must be UNITLESS, uents of w = wents fr Et DC = fine in sec w = frequency in H7 = Gydles/sec. THM You can recover of from finesing te inverse Fourier transform: f(x) = [+++(x)] (61) Firste dw Despresses of as som (integral) of designs
with weights of (w) = r(w) ei O(w) with r(w) =

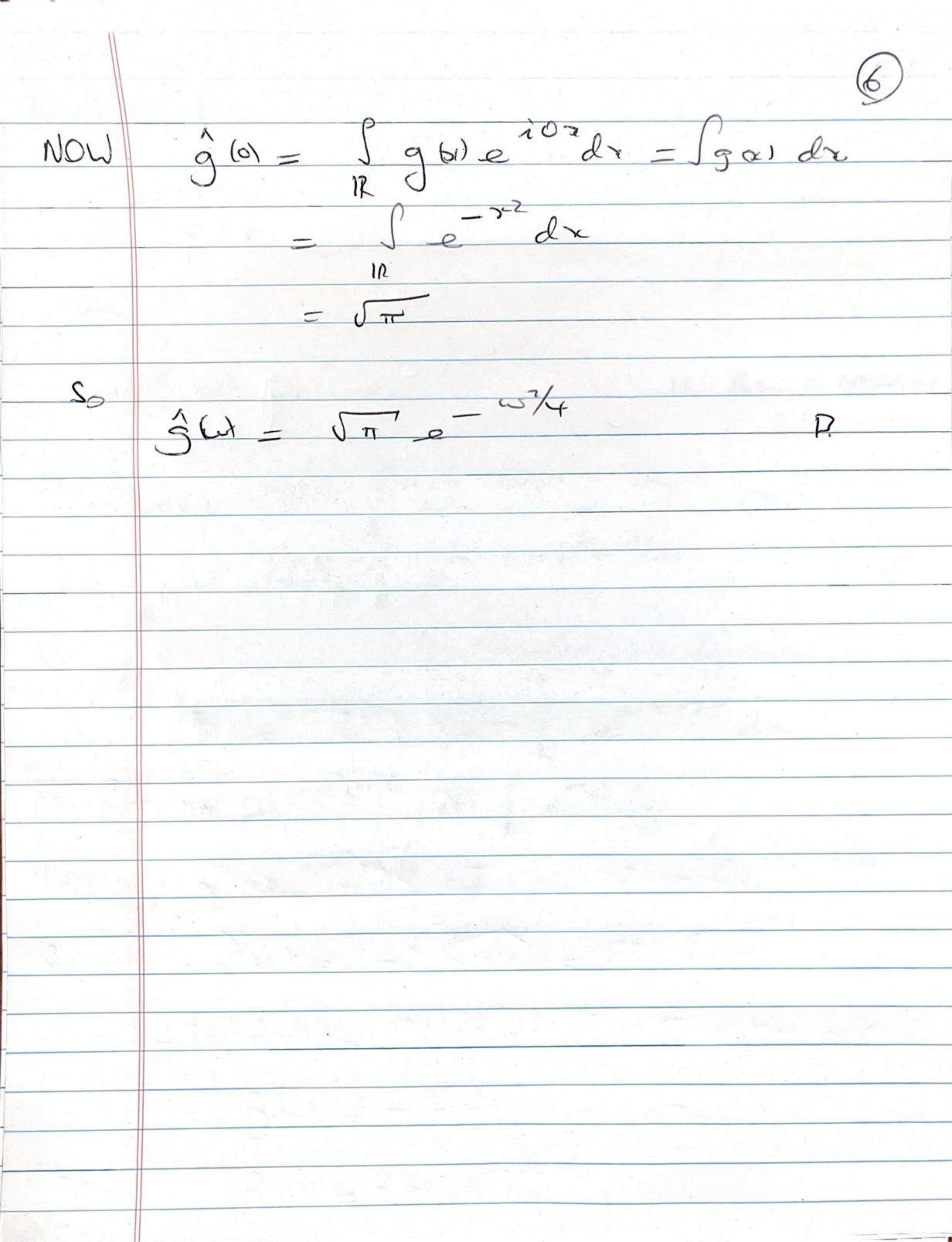
Amplitude and O(w) = Place Slift.

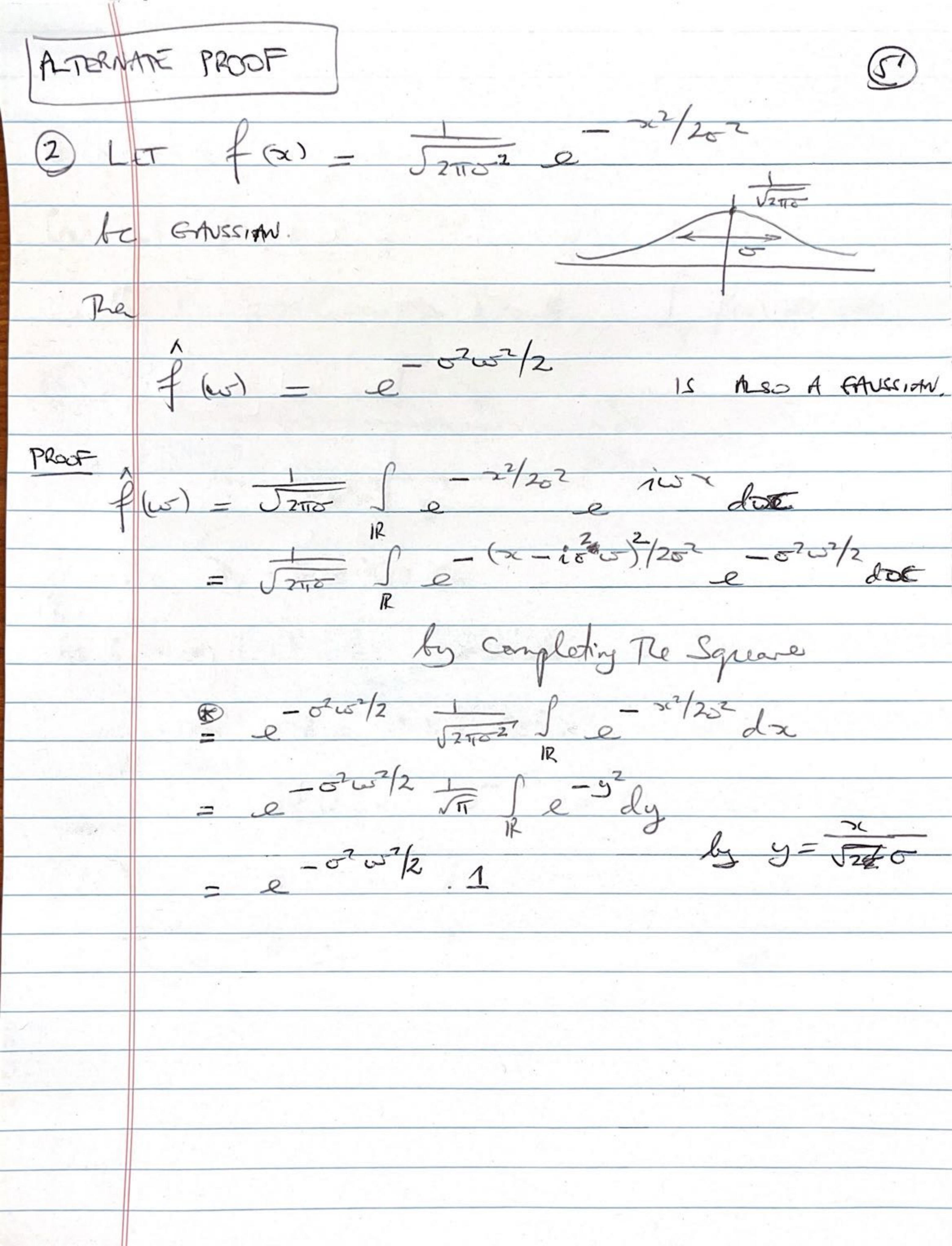
1

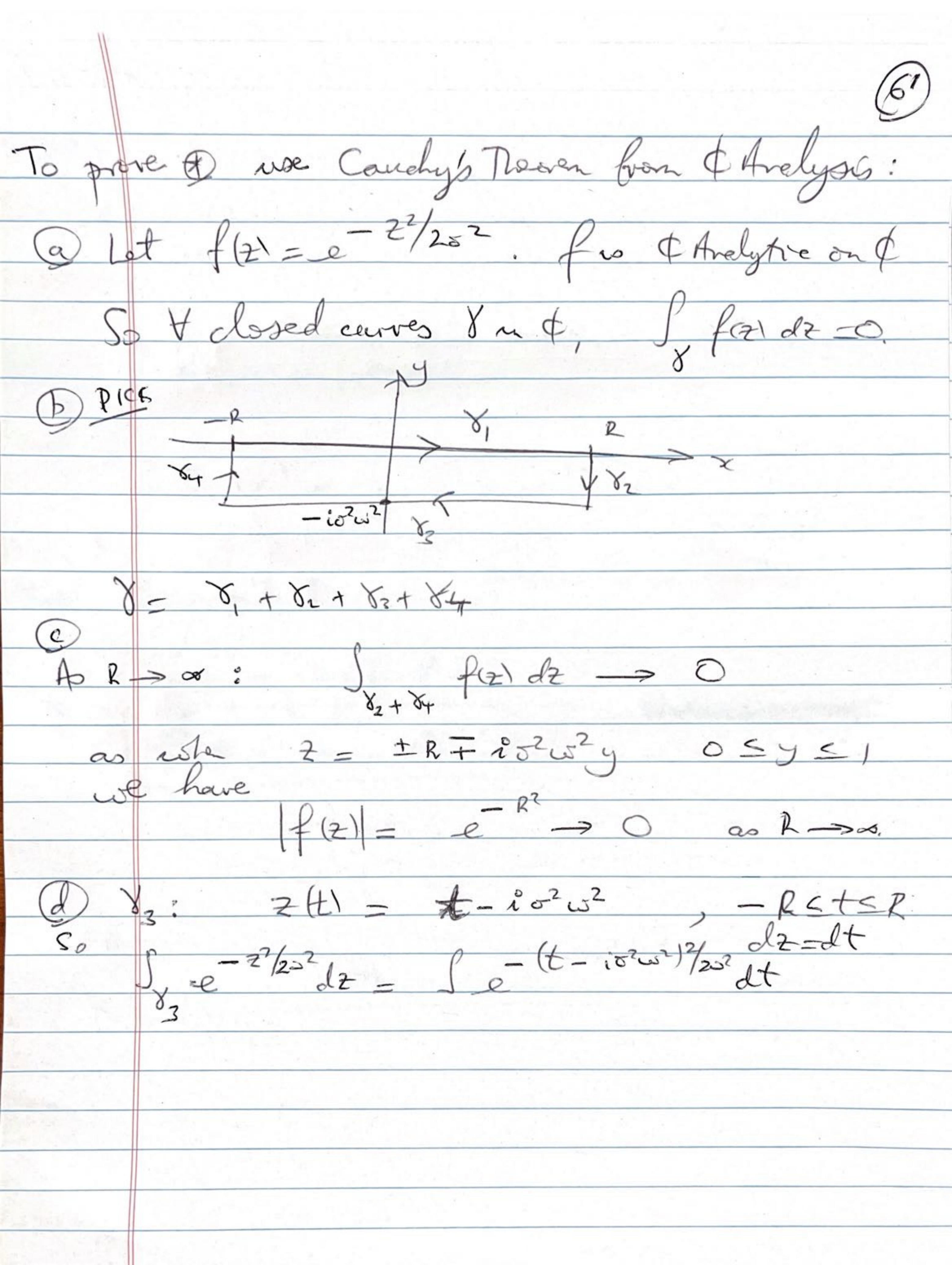


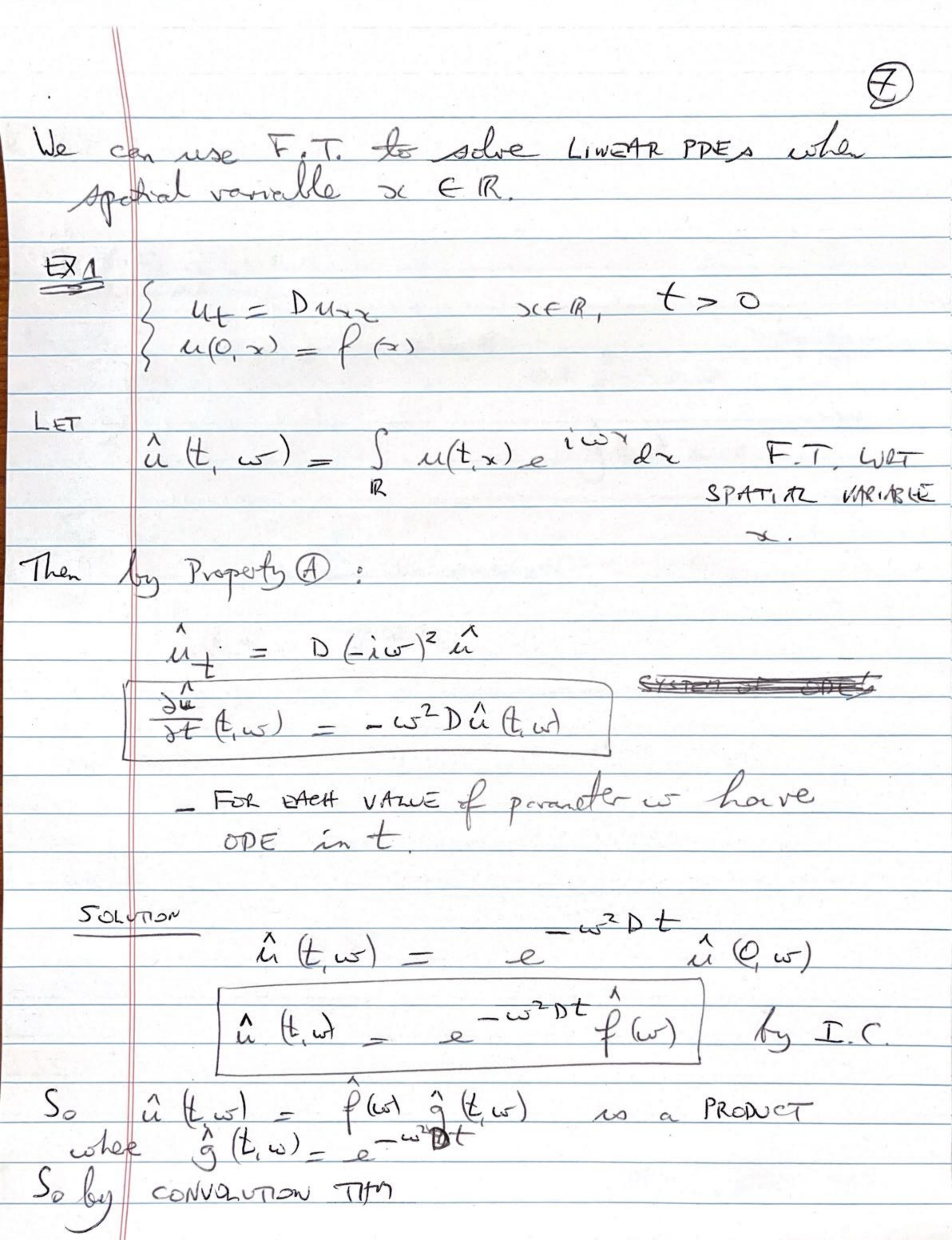


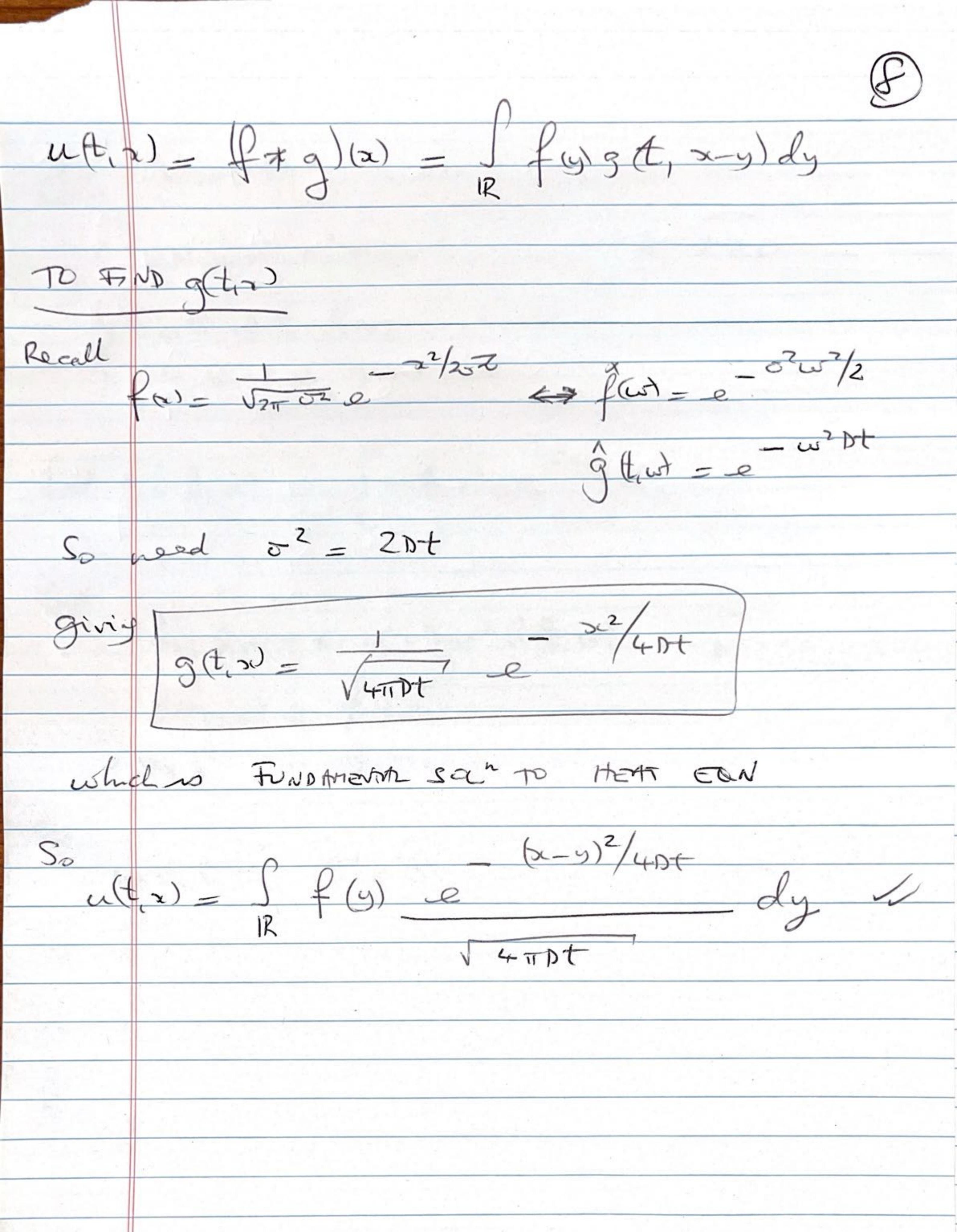




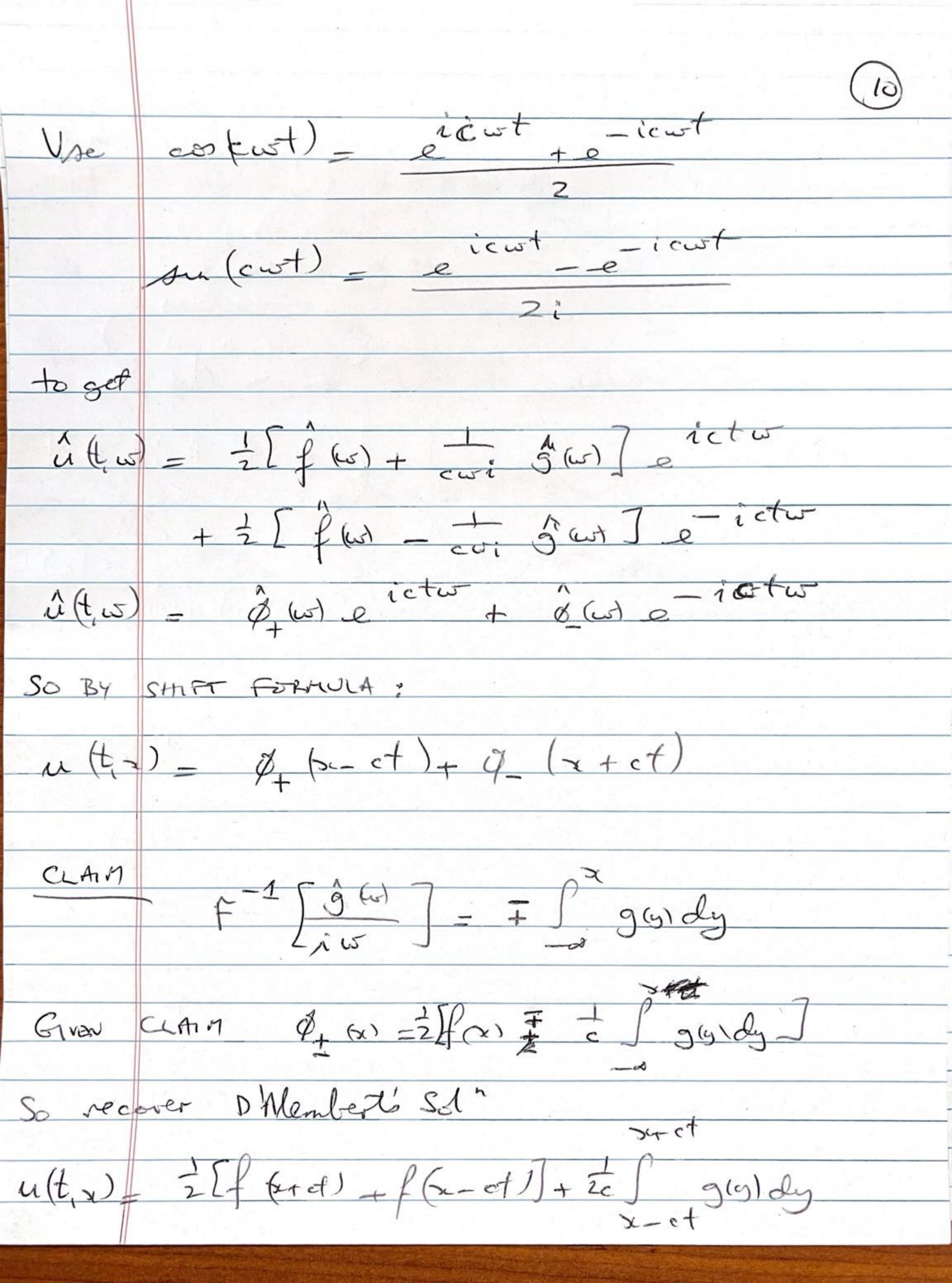








û(t, w) = ju(t, x) e iw dr mutter)= = = c2 w 2 û(t, w) ODE IN NITH PARITIER Sût (0, m) = 3 (m) So $\hat{u}(t, \omega) = A(\omega) \cos(e\omega t) + B(\omega) \sin(c\omega t)$ $f(\omega) = \hat{u}(0, \omega) = A(\omega)$ 3 (w) = û, (0, w) = cw B(w) il (tw) = flus cos (out) + gw) sul cwt)



PROOF OF CLAM g (w) = h (w) = - iw h (w) as how = I har ein de PARTS - Show iw eiwa da = - iw L (w)

H