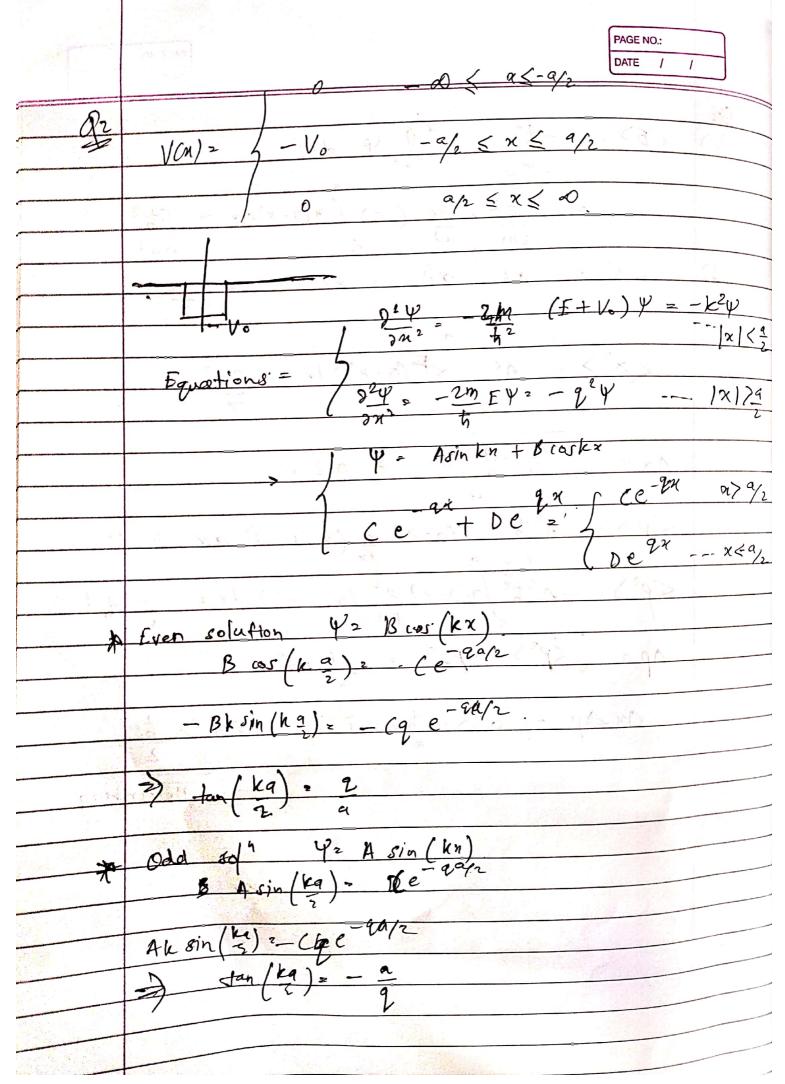
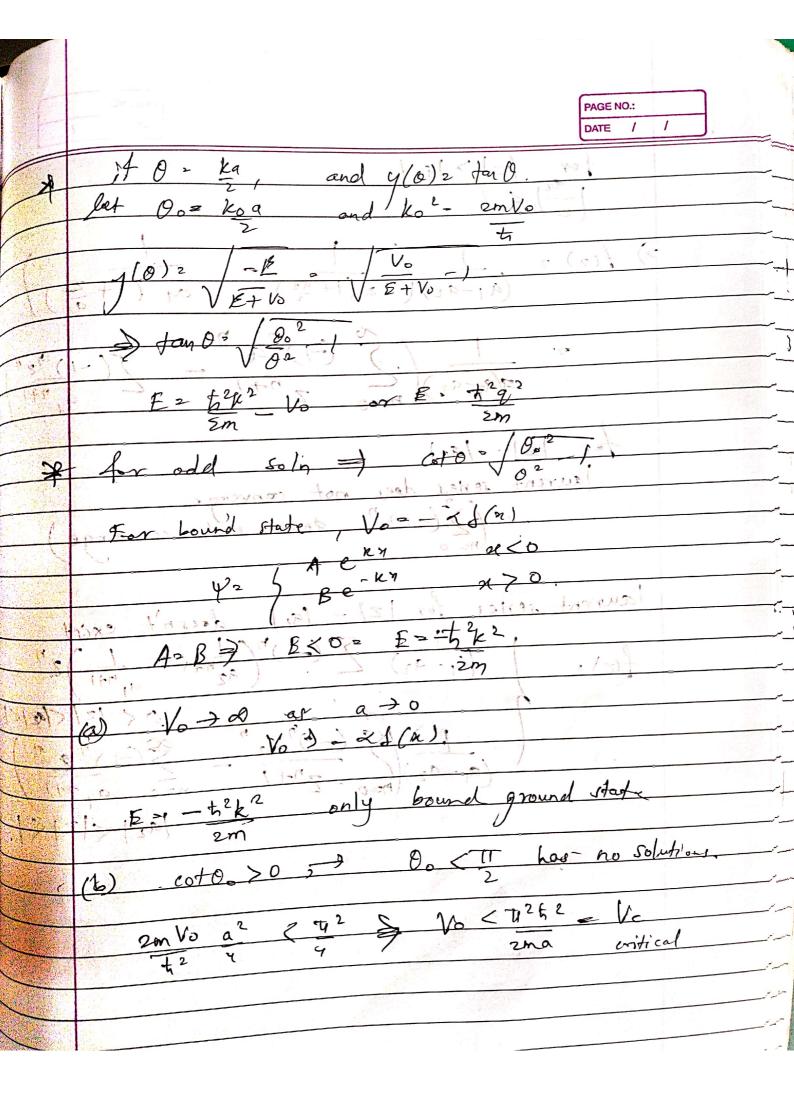
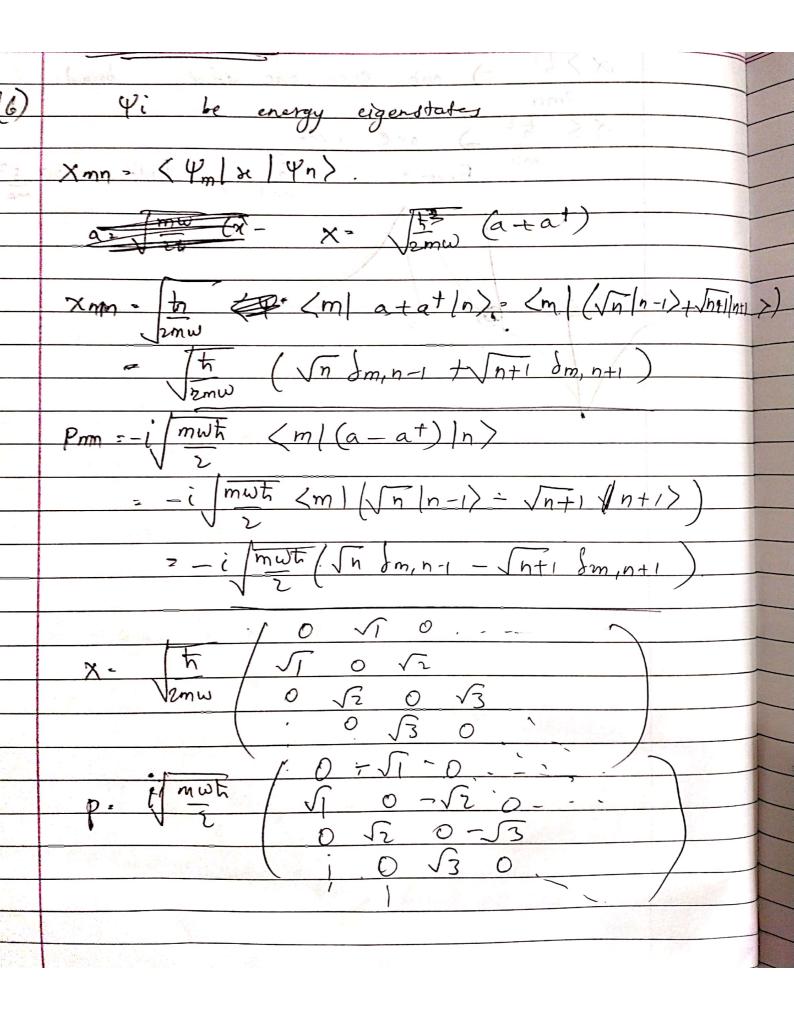
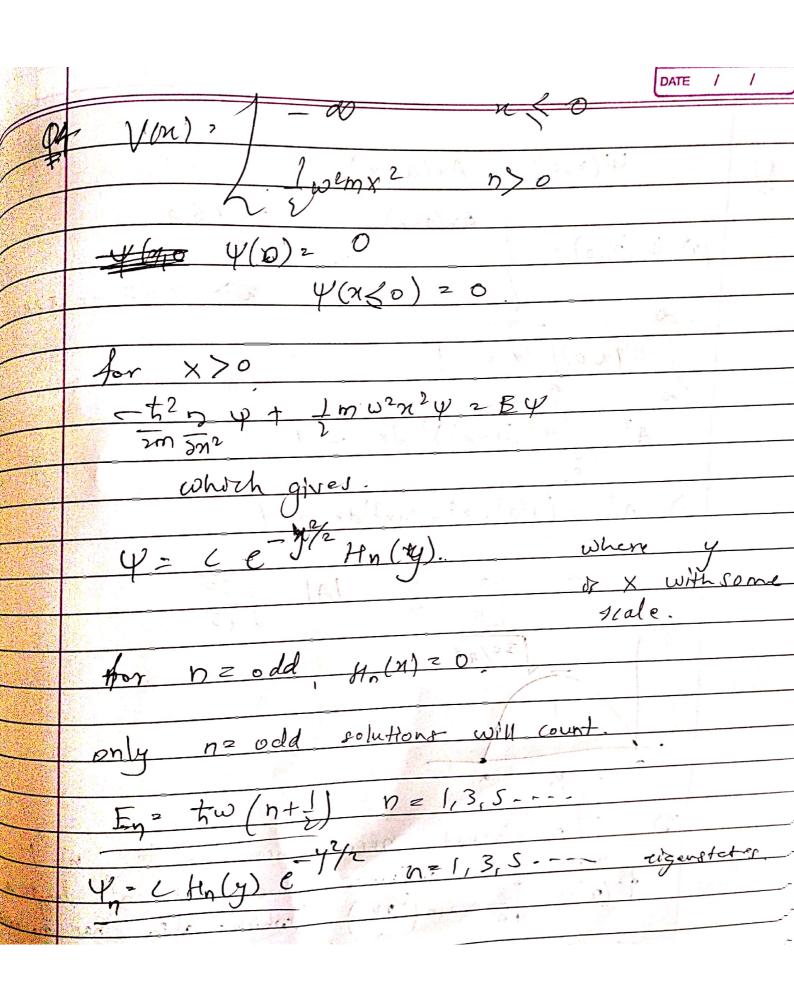
	Accianment - 2 19MSIS)
	ASSIGNMENT - 2 19MSIS) Adward + Norawane Ph3102 PAGE NO.: DATE 1 1
The last security as your party	
	4(4,0) = Ax(a-x)
<u> </u>	
eres de dese	The contract of the contract o
**************************************	(a) \(\langle (\chi_10) = \) \(\chi \langle 0 \)
	\mathcal{O}
	[42x,07] dx = 1
	A STATE OF THE STA
_	$A^{2} \left(\alpha^{2} \left(\alpha - n^{2} \right)^{2} dn = 1 \right)$
	Lavia Aucho de Cilia
	=) A 2 / (xea + x4 - 2ax3) dx = /
	Will Commission (it).
	A2 30 \ A = 30
	$\frac{-5}{a^5}$
	30/45 blo
	trans a sale of the sale of th
	1/2 . The second of the second
<u> 21 1 1 1 1 1 1 1 1 1 </u>	(6) The closest recemblance is to n=1
13-12-12-0	State of infinite square well of length a
	B(x)= 12 sin (ux) which also have no rade
	$P(n=1) = C_1 ^2$ $P(n_10) = \sum_{i=1}^{n} C_n \phi_i(n_i)$ where ϕ_n is the square well books.
	where on 17 the square well bost.
	$\frac{1}{2} \int_{a}^{2} \sin\left(\frac{\pi}{a}\right) \cdot \int_{a}^{3} \cos\left(a - x\right) dx$
	= 8\15 73
***	P(n=1)= 1912= 64x10 N 0.9985
The Part of March	

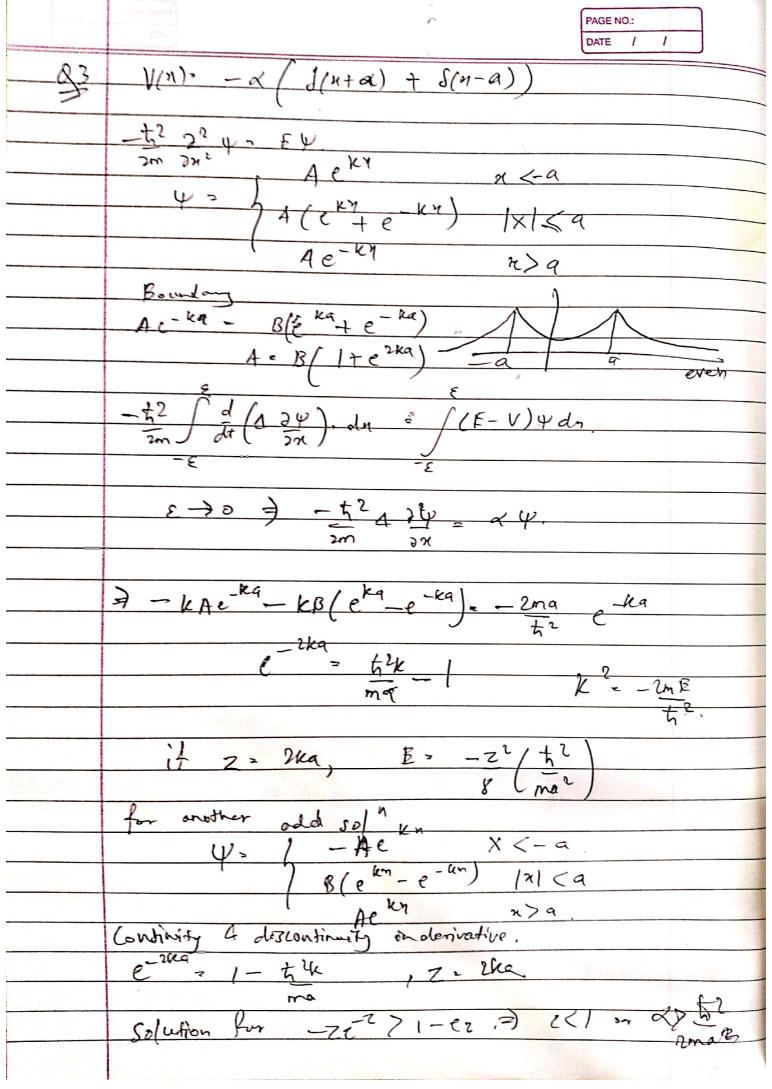
da x (a-x) dx € (a-4)2 dx = 222 0.2a $\frac{\int \alpha(\alpha-n)}{dn} \frac{d}{dn} \left(n(\alpha-n)\right)$ Helsenberg











even, one add boere Eeven = - 0-615 f2 mar zma Endd 2-0.317 \$2 mez

(a) Yn3 (Knyle -41/2 8 Inty) The state of the s A Some normalisation constant which absorbes all scales of your flat of the your flat of the your formation constant which also all scales of the your formation of distance, so they are both some with some scale factor of the same with some scale factor =. A J y Hnly) Hnly) dy # - 2(n-1) Hn-2 7 y m= that + n Har => = A. S Muly). (] Must + n Hart) dy Now Hermite polynomials are orthogonal & follow

How Have 72/2 dy = Fi 2" ml. Sun

J# 4m4n -= Shall, n + n Sn-1, n = 0

A 2 (2)

<22 a A Jy2 Mnly) Mnly)e-472 dy Similarly: ydln= I Mn+1 + n Mnc1 Juny Mn 2 (1 Hns) + n Mnoi) a 1 Mn+12 + m2 short + n. Mnors dent > < x29 2 (47hn) (4th) (4th) of J (4 Hn+1. Mn+1 e - 772 + n2 Mn7 Mn e 7/2 -00 + n Hnfl Hnf (-172) dy

At \$ (n+1)! Sntl,ntl + n2. en-1(n-1)dmin $2 = \frac{2^{n+1}(n+1)!}{4} + \frac{n}{n} = \frac{n!}{2} = \frac{n-1}{4}$ α $e^{n+n!} \left(\frac{n+!}{4} \cdot 2^2 + n \right)$ $32x^2$ α (2n+1). 3 \$ (x27 12 A1. (2n+1) Jen-Pl =) Ax = \((x27 - 4x) 2 - X Now this ronators to Trn +1