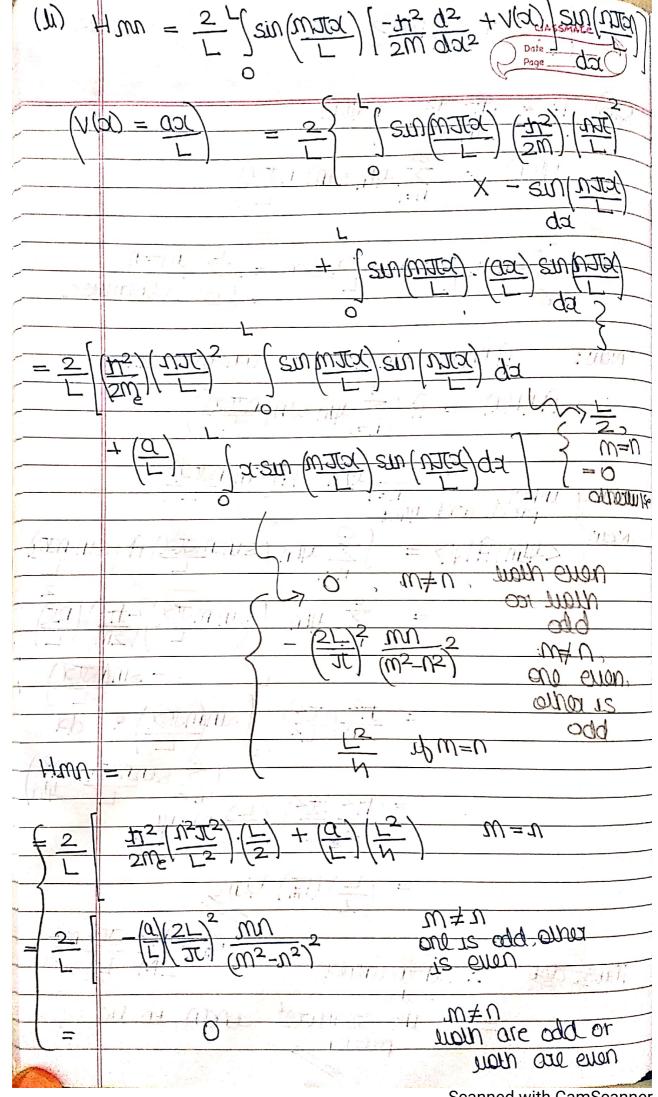
		PH354 HW3
=	916)	$H = -\frac{\pi}{2} \frac{d^2}{d^2} + \sqrt{a}$
		$H = -\frac{\pi^2}{2m} \frac{d^2}{dd^2} + V(a)$
-	- <u>6.</u> m	$\frac{1}{\sqrt{12}} = \frac{2}{\sqrt{12}} + \frac{1}{\sqrt{12}} = \frac{1}{\sqrt{12}}$
1	gri	$\int_{0}^{\infty} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}}$
	Van	: A4(x) = E41(x) consider 1415.
The second second		$A+\mu(\alpha) = A\left(\frac{n}{2} + \mu \sin(n\pi\alpha)\right)$

) = EMIA)
	where H, W in the same $V = EV$ where H, W in the same
\Rightarrow	HII HIZ HIS / (MI) SSIDITY
	H21 H22 H23 $ \psi_2 = E \psi_2 $ $\therefore \qquad \qquad$
boo	· · · · · · · · · · · · · · · · · · ·
EHS =	$= \sum_{N=1}^{\infty} H_{NN} \psi_{N} \qquad \text{RHS} = E \psi_{M}$
\Longrightarrow	$\sum_{v=1}^{\infty} Hmv Av = EAv$

We know $Hmn = \frac{2}{L} \int \frac{1}{\sin(m\pi a)} \hat{H} \sin(\pi a) da$ Substituting: $\sum_{n=1}^{\infty} \left(\frac{2}{L}\right) \int \frac{1}{\sin(m\pi a)} \hat{H} \sin(\pi a) da$ $\sum_{n=1}^{\infty} \int \frac{1}{\sin(m\pi a)} \hat{H} \sin(\pi a) da$



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ò	: Hann , , but it is
=	$\frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} + \frac{2}{2} \qquad M = 1$
	$-\frac{1}{8}\frac{1}{100} \cdot (0) \qquad 10 \neq 10$
	LS odd (mth 1s odd)
	(30.47)
	(411.31. 40 CM21)