end familia dich diddige, di ma pilayan ya yan, aba ya ba mad	For position basis; we have
	$(x)(\psi^{(\pm)}) = (x \phi) + \int dx'(x) \frac{1}{E-H_0\pm i\epsilon} x'(x) \psi^{(\pm)})$
	We less that $(x1\phi) = \frac{e^{ip \cdot x/4}}{(i\pi t_1)^{1/2}}$
	Now went to exclude the keal of the sutegal you
	$G_{\underline{\xi}}(x, x') = \frac{\xi^{2}}{2m} \left(x \middle \frac{1}{E - H_{o} \pm i \varepsilon} \middle x' \right)$
	Claim: $G_{\pm}(x,x') = \frac{-1}{4\pi} \frac{e^{\pm ik(x-x')}}{ x-x' }$ where $E = \frac{k^2k^2}{2m}$
	$\frac{f_{+}^{2}}{2m} \left(\times \right) \frac{1}{E - H_{0} \pm i E} \left(\times' \right) = \frac{E^{2}}{2m} \left(\frac{3}{4} \right)^{n} \left(\times p' \right)$
	$= \left\langle \frac{1}{p''} \right\rangle \left\langle \frac{p''}{p''} \right\rangle$ $= \left\langle \frac{1}{p''} \right\rangle \left\langle \frac{p''}{p''} \right\rangle$
	(P/2m)
	Use $ \begin{cases} \frac{1}{E - l_{in}^{2} ti\epsilon} & \frac{1}{E - l_{i}^{2} l_{i}^{2} \epsilon} \\ \frac{1}{E - l_{in}^{2} ti\epsilon} & \frac{1}{E - l_{i}^{2} l_{i}^{2} \epsilon} \end{cases} $
	$\frac{\mathcal{L}_{0}}{\sum_{k=1}^{\infty} \left(\frac{1}{E-H_{0}\pm i\epsilon}\left(\frac{x'}{x}\right) = \frac{h^{2}}{\sum_{k=1}^{\infty} \left(\frac{A^{3}p'}{E-p'}\right)^{3}} \left[\frac{1}{E-p'} + \frac{1}{\sum_{k=1}^{\infty} \left(\frac{A^{3}p'}{E-p'}\right)^{2}} + \frac{1}{\sum_{k=1}^{\infty} \left(\frac{A^{3}p'}{E-p'}\right)^{2}} + \frac{1}{\sum_{k=1}^{\infty} \left(\frac{A^{3}p'}{E-h_{0}}\right)^{2}} \left[\frac{1}{E-p'} + \frac{1}{\sum_{k=1}^{\infty} \left(\frac{A^{3}p'}{E-h_{0}}\right)^{2}} + \frac{1}{\sum_{k=1}^{\infty} \left(\frac{A^{3}p'}{E-h_{0}}\right)^{2}}$

	Now, $E = \frac{t^2 k^2}{2m}$. Let $p' = \frac{t^2}{2}$, get
	$\frac{1}{(2\pi)^{2}} \int_{0}^{2\pi} dq \int_{0}^{2\pi} dq$
nerview and relative to the state of the sta	$(2\pi)^2$ $\int (2\pi)^2 \int (2\pi)^2 \int$
	() () () () () () () () () ()
	1 1 (ei+ x-x') -e-ix x-x')
(n)	8/1 i x-x)) g2-k2 = i E
(Residue)	$ \begin{cases} 2\pi i x-x' \\ -p \\ 4\pi x-x' \end{cases} $ $ \begin{cases} q^{2-k^{2}} = i \xi \\ 4\pi x-x' \end{cases} $
	41T 1x-x11
) h	Motor that the subsystemed has poles $q = 4K \int_{1} \pm \binom{n \cdot \varepsilon}{K^2}$
	~ K t is'
	$G = \frac{1}{4\pi} \left(\frac{1}{x_1 \cdot x_2} \right) = \frac{1}{4\pi} \left(\frac{1}{x_2 \cdot x_2} \right)$
_(^)	6 Gy (x,x1) = -1 e 2 -1 x-x-1
	FT X-X/
	DI IA
	Put this is just the Green's function for the
	Remarks eg 6
	$\left(\nabla^{2}+\kappa^{2}\right)G_{+}\left(x_{3}x'\right)=g^{\left(3\right)}\left(x-x'\right)$
	Will Gt, we have
	2 () () 2 () () () () () () ()
	= sum of vfn of it vilent ware (x10)
-(^)	and a term that represents the
	- fut of Scattering
	/· V

When V is local (i-e-Vir digned in the
1-e. $\langle x' V x'' \rangle = V(x') f^{(3)}(x-x'')$
7 (x' V \(\psi^{\pma}) = \int d^3 x" (x' V x")(x")\(\pma^{\pma}\)
_ V(x') ⟨x' Ψ ^(±) ⟩
and so, when V is total $ \left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\right)\right) - \frac{2}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\right)\right)\right) - \frac{2}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\right)\right)\right) - \frac{2}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\right)\right)\right)}{2} - \frac{2}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\right)\right)\right) - \frac{2}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\right)\right)\right)}{2} - \frac{2}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\right)\right)\right)}{2} - \frac{2}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\right)\right)\right)}{2} - \frac{2}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\right)\right)\right)}{2} - \frac{2}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\right)\right)\right)}{2} - \frac{2}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{$
heret does their accoun? I we can set 1×1 >> 1×1/ where
$k = p_i/k$
Fulodunj $r = x $, $r' = x' $, $d = \mathcal{L}(x, x')$
Nem ->> r', 1x-x'/2 r-F.x?
Orfini k' = kr . Then (+ik/x-x'/ +ikr = ik' ox')
$\begin{cases} e^{\pm ik/x-x'/2} & = e^{\pm ik'\cdot x'} \\ e^{\pm ik/x-x'/2} & = e^{\pm ik'\cdot x'} \end{cases}$ when $r > 7/2$

and 1 ~ 1. Use /4) rather than /p) to $\frac{1}{4} \frac{k = \frac{p_i}{4}}{\sqrt{\frac{2\pi}{2}}} \int_{\mathbb{R}^{\frac{p_i}{2}}} \frac{e^{ik \cdot x}}{\sqrt{2\pi}} dx$ here, in the GERA (x/ >> 1x1) limit... (x(4(2)) large r, (x/k) - 1 2m e 7kr (1/x). e-ik·× V(x')(x') (x') $= 1 \left[e^{jk \cdot x} + e^{jkr} + (k',k) \right]$ $= (2\pi)^{4/2} \left[e^{jk \cdot x} + e^{jkr} + (k',k) \right]$ plane wave work nich aug binde $\frac{-(2m (2\pi)^{3})^{3}}{4\pi + 2} \frac{d^{2}x'}{(2\pi)^{2/2}} \frac{(4')x'}{(2\pi)^{2/2}} \sqrt{(x')} \left(\frac{(4')x'}{(2\pi)^{2/2}}\right)$ -1 (2T) 3 2m (&1/14 (*)) We wa't vary about the backward populary solution

4(-), but it's easy to bird out what it is by

a similar appoint

	Near to alstin dhe differential awas section to
	do In = # proble soutered into do 1/ time 450 # invident prhiles / wrea / time
	$\frac{r^2 j_{\text{cont}} dR- f(k',k) ^2d\Omega}{ j_{\text{incj}} }$ and so
d6	$\frac{\int \delta - \left f(k',k) \right ^{2}}{\int \Omega}$
	2) The Born Approximation.
in film.	
. 1	