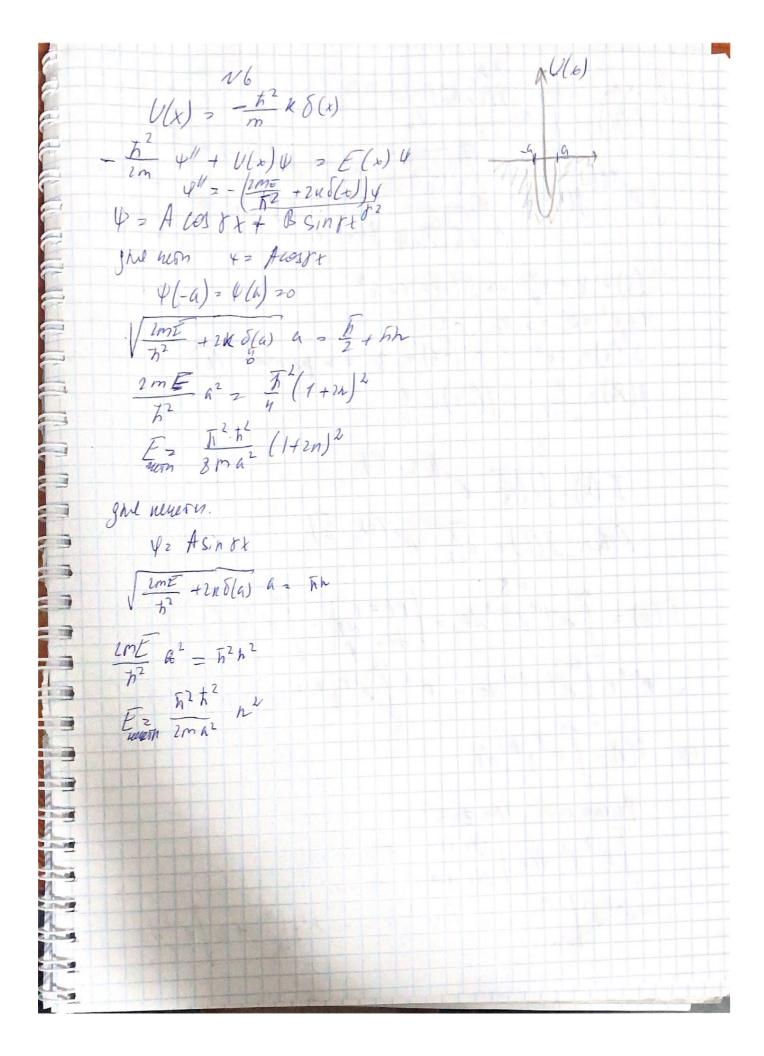
The state of the s 2 K 2 / e 18 /3 d 2 2 1 2 m 3 res f(2) no reopena Kour of Course Oborbu rouxy 4) Z= 0 - Mocron nomor. He nographe k scoreme, P.M. (Pal result was our fez, r.e. ue 6 beparent 20 **E** non-coy E B.O. 2) Z= -1K - romal 3 ropegus. nortogue « ocopenia em 1/2-111, v.a. mi grang ATEMBER K **17**34 k2 \ eit dt = unispes f(1) res f(t) = [m-1]/ 2-20 dm12 (2-20) m f(t) res 1(1)= 1 elm d 2 (2-ik) 2 = it = 1 lake (2-ik)-et | lam (eit (it + k-1))

2 1 ein ieit (iztk) (2-ik) - 2 eit (iz+k-1) 2 2 z zik (2-ih)3 2 f. 2 ek. 0 = 8 Pol Hip 1 Pim d2 (2-in)3 e 12 = 1 e/m (i e i2) 2
2=in 2 = in d2 2 (2-in)3 = 2 2 3 in (i e i2) 2 2 1 lim (-e^{t2}) = 1-1 e^{-K} | 2 1 e^{-K} TOUPA K2 (f(b) 2 K2-26) Le 2 i Ex2 e-K terbiers pri n = 0 I(0) = i hx2 e-K U(x) - +4+1 qp-0 U(x) - 12712 $\frac{1}{\sqrt{1 + 1}} = \frac{1}{\sqrt{1 + 1}} = \frac{1$ 25 = n(\frac{1}{2} + \frac{52}{2}i) \left\righta 22,6 = 1(+ 52 4 = 52i) - He plant l'Expenser rongerouson for f(1) = e/m e/2 - k2 | (2-23)(2-24) = e/k2 - k2 | (2-24) | (2-23)(2-24) = k3 (1-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-24) | (2-2

res f(1) 2 $\lim_{z \to k(-\frac{1}{2}, \frac{1}{2}i)} (2-2i)(2-2i)$ 1 6 8 K 2 2 2 $\frac{\sqrt{2}}{2} \times \frac{\sqrt{2}}{2} \times \frac{2$ Person U(t) 6 Appel $U(t) \sim \frac{5}{252} \frac{\pi}{252} e^{\frac{2\pi}{2} \ln(i-1)} e^{\frac{\pi}{2} \ln x}$ Ulb Ult/2/x yρ (() ψ() = E () () Por top 460)-00

Im a(p) + dit a(p) = Ea(p) 4(0) = 1 Set a(p) ALL - 4(0) = 1 Sa(p) dp = 0 Jale 1 4p = 0 $a(0) = \left(E - \frac{P^2}{2m}\right) \left(\frac{i}{4\pi}\right) a(P)$ $\frac{E^2 u^2}{2m} = \frac{i}{2d \, 5m} \left(P u^2 - \frac{P^3}{3} \right)$ $der \quad C = \frac{i}{2d \, 5m} \left(P u^2 - \frac{P^3}{3} \right)$ 1 to alp) dp 2 c fe = 2/1/2 [PK2 - P3] dp =0 $k \int_{-\infty}^{\infty} e^{-\frac{x^3}{2mdh}i} \left(t - \frac{t^3}{3}\right) dt = \frac{1}{3} \int_{-\infty}^{\infty} dt$ $2\sqrt{\frac{2\pi}{2\lambda}} \ell^{-\frac{2}{3}i\lambda+i\frac{\hbar}{4}} + \ell^{\frac{2}{3}i\lambda+i\frac{\hbar}{4}}$ \$\frac{2h}{2\lambda} 2 cos \left(\frac{2}{3} \lambda - \frac{17}{4}\right) 21-1=1+12 $K = \frac{3}{2} \left(\frac{hh - \frac{\pi}{4}}{2} \right) = \frac{3}{2} \frac{\pi}{6} \left(n - \frac{1}{4} \right)$ $K = \frac{3}{2} \left(\frac{hh - \frac{\pi}{4}}{2} \right) = \frac{3}{2} \frac{\pi}{6} \left(n - \frac{1}{4} \right)$ E2 K2 2 /3 m d t Tr (n-4) 5 3

14 Nb) U(x) 2- 1 1 8(24) - 1 5(x+6) SP-e Morganego. - to 2 (x) + (x) = E4(1) - 12 4"(x) - 12 (S(x+1) + S(x-1)) 4(x) - E4(x) 46 2 - (2mt +2k (8(x+4)+5(x-2)) 4 42 Alosex + Bsinds y (L+a) = 4 (L-a) = 4(-L-a) = 4(-L+a) =0 4(Ltw) = A cos (25m + 2k io (Lina)) = 0 -#4. JEFM ((114) = 1 + 15h 100 2Em 1 = 1/4 (1+2n)2 Siller Siller E= 12/2 (1+2n)2 18 18 18 187



 $\overline{J}(\Lambda) = \int_{0}^{\infty} \frac{i\lambda(x+\frac{1}{4})}{t^{2}+1} dx$ $\int e^{i\lambda S(x)} \int (x) dx = \int \frac{2\pi}{\sqrt{\chi_0^{\prime\prime}(x_0)}} \int (x_0) e^{i\lambda S(x_0) + i\frac{\pi}{4}} \int (x_0)^2 e^{i\lambda S(x_0) + i\frac{\pi}{4}}$ S(x)= x+ 24 -> S(4)= 1+ 23 $1+x^3=0 \Rightarrow x_0 \Rightarrow -1$ $\int_{-1}^{11} (x)^2 3x^2 = \int_{-1}^{11} (-1)^2 3 \Rightarrow \text{permenue} (1.)$ $\int (x)^2 \frac{1}{x^2+1} + \int \int (-1)^2 \frac{1}{2}$ Orber: I(h) = Vol e (3h + 1/4) $\overline{T}(p) = \int_{e}^{t_{0}} e^{-pt} t^{z-1} dt = \left| pt = r \right|_{e}^{t_{0}} \int_{e}^{t_{0}} e^{-rt} \left| \frac{t-1}{p} \right|_{e}^{t-1} dr$ 2 pt-2 (e) fe-1 ft-1 dt 2 p-7 [e-1 ft-1 dr 2 p-2 [(t) ye ((2) = | e + 2-1 dr Jet 2 dr. / H2 12 dr. 2 et dr / 2 2 - et 2/th + 2 /re-dr = -2 et / + 2 fe-t dr

 $\frac{1}{e^5} - \frac{l \cdot m}{400} = \frac{1}{2} 2$ lim b>+6 25000 energys, MNO F(t) = (t-1)! $\overline{I}(p) = p^{-t} F(t) = p^{-t} (t-1)!$ ly 4 三三三 -