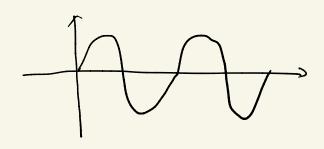
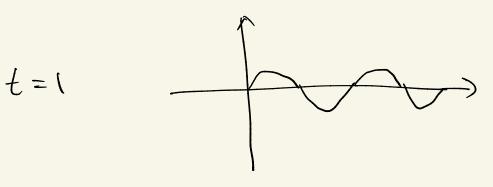
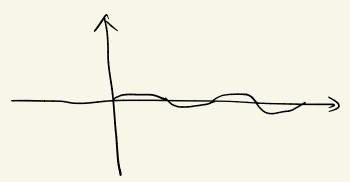
Selected solutions to PSII

The rough behaviour of U over time is as follows







$$= \frac{|X||_{0}^{1}}{|X||_{0}^{1}}$$

$$= \frac{|X||_{0}^{1}}{|X||_{0}^{1}} + \frac{|X||_{0}^{1}}{|X||_{0}$$

so Silucxitidx is a conserved quantity

3. If II does not depend on t, the PDE becames

U = cxtd a linear fretion

25 the temporative distribution does not change
with time, it has to be a linear fretion

4. Let us consider $U(x,t) = e^{-bt} V(x,t)$ namely $V(x,t) = e^{bt} U(x,t)$

 $\Lambda^{kk}(k'f) = 6 \rho_f (\gamma^{kk}(k'f))$ me pare $\Lambda^k(k'f) = 6 \rho_f (\gamma^{kk}(k'f))$

and $V_{\pm}(x_{i}\pm)=\cdot be^{bt} (l(x_{i}+1) \pm e^{bt} (l_{+}(x_{i}+1)$ So we get

 $V_{t} - K_{t} N^{2} = pe_{pf} \cdot [M - K_{pf} \cdot M^{2} + pn]$ $V_{t} - K_{t} N^{2} = pe_{pf} \cdot [M - K_{pf} \cdot M^{2} + pn]$

POE satisfied = ept - 0

= 0

So V satisfied the equation

 $\int \Lambda(x,0) = \int_{0}^{\infty} \int_{$

By Fowler-Poisson formla, we get $V(x+t) = \frac{1}{derke} \int_{-\infty}^{\infty} e^{-\frac{(x-1)^2}{4rkt}} \cdot e \cdot f(x) dx$

and so

 $V(x+f) = e^{-pf} V(x+f)$

= e-bt co e (x-y)2 e. f(y) dy