$\{(x_1,t_1)_{i=1}^N=\{(x_1,t_1),(x_2,t_2),..,(x_N,t_N)\}.$ 1 y=2. Squard enr/1-95 h(x) = 2 W(1) = mod 2(10) 9=0 1 220 hlx1 = { 0 x < 0 } x = 20 lim h 10) = 0 lim h(x) = 1 $\omega^{(\epsilon t)} = \omega^{(\epsilon)} - 1 \frac{3h(-t\omega^{3} n)}{2}$ = wed - phi(-twix) (-tx)
= wed - phi(-twix) (-tx)
= wed - phi(-twix) tx. = Wel + ytx.

SGD. SGA f(x)ADAM

Ada Deta

Ada Deta $x_{2} = x_{1} - \nabla f(x) \int_{x_{1}} x_{2} = x_{1} - \nabla f(x) \int_{x_{2}} x_{2} dx$

 $1 = \frac{1}{t^2} \frac{10^{-2}}{3}$

$$\omega = (\omega_1, \omega_2, \omega_3)$$

$$\lambda_1 = \omega_1^2 + \omega_2^2 + \omega_3^2$$

$$\lambda_2 = \omega_1^2 + \omega_2^2 + \omega_3^2$$

$$\lambda_3 = \lambda_1 - \lambda_2 = \lambda_1 - \lambda_3 = \lambda_1 =$$

$$\omega^{(k+)} = \omega^{(k)} - \eta \frac{\partial L}{\partial \omega}
= \omega^{(k)} - \eta \left[\frac{L}{L} (-t \eta^{2} \omega) (-t \eta^{2}) + 2\lambda \omega^{(k)} \right]
= \omega^{(k)} - \eta \left(-t \eta^{2} + 2\lambda \omega^{(k)} \right)
= \omega^{(k)} - \eta \left(-t \eta^{2} + 2\lambda \omega^{(k)} \right)
= \omega^{(k)} \left(1 - 2\eta^{2} \right) + \eta^{2} \eta^{2}. \qquad \eta^{(k)} = 1
= \omega^{(k)} \left(1 - 2\eta^{2} \right) + \chi^{(k)} \eta^{(k)}.$$

