a)
$$W_i^{t+1} = W_i^t + \eta(t)[x - W_i^t]$$

=> $W_i^{t+1} - x = W_i^t + \eta(t)[x - W_i^t] - x = 0$

=,
$$W_i^{t+1} - x = W_i^t + \eta(t) x - \eta(t) W_i^t - x = 1$$

$$= (1-\eta(t))(w_i^t - x)$$

=
$$|w_{i}^{t+1} - x| = |1 - \eta(t)| \cdot |w_{i}^{t} - x|$$

Opolws, $|w_{j}^{t+1} - x| = |1 - \eta(t)| \cdot |w_{i}^{t} - x|$

(ii)
$$d_1 = 11 \times -w_1 1^2 = 13$$

 $d_2 = 11 \times -w_2 1^2 = 13$
 $d_3 = 11 \times -w_3 11^2 = 65$

Opioious ma ra Bapu. De proposite va enzizoupe viturisverpièra, kanderaey "aurageuretoi".

$$|W_{kj}| = \frac{1}{N} \sum_{m} \sum_{k=1}^{m} |W_{k}|$$

$$|\sum_{j \neq k} \sum_{m \neq p} |Z_{k}|$$

$$|Z_{j}| = \sum_{j \neq k} |Z_{j}|$$

$$|Z_{j}| = \sum_{j \neq k} |Z_{j}|$$

$$|Z_{j}| = \sum_{j \neq k} |Z_{j}|$$

$$y_{\varepsilon} = f(y_{\varepsilon}) = f\left(\frac{\varepsilon}{j} \text{ white}\right) = f\left(\frac{1}{N} \text{ in } \frac{\varepsilon}{j} \text{ in } \frac{\varepsilon}{j}\right) = f\left(\frac{1}{N} \text{ in } \frac{\varepsilon}{j} \text{ in } \frac{\varepsilon}{j}\right) = \frac{1}{N}$$

$$= f \left[\frac{1}{N} \frac{3}{5}k^{2} \cdot M + \frac{1}{N} \frac{3}{5}k^{2} \sum_{j+k} \frac{3}{5}j^{2} + \frac{1}{N} \sum_{j+k} \frac{2}{5}i^{2} \right]$$