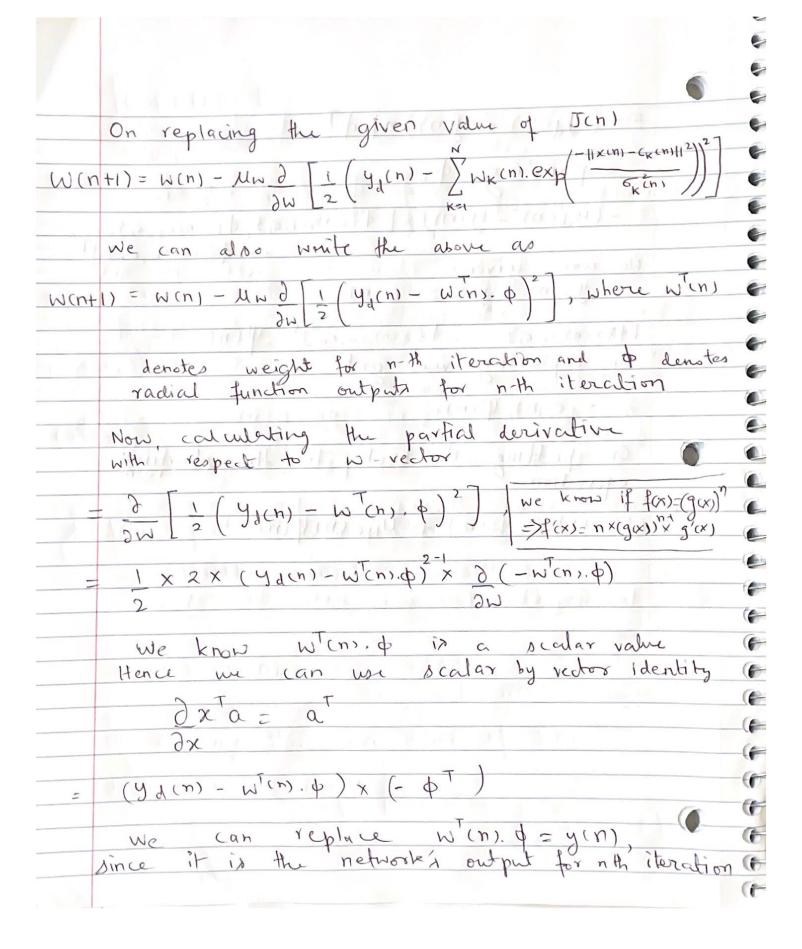
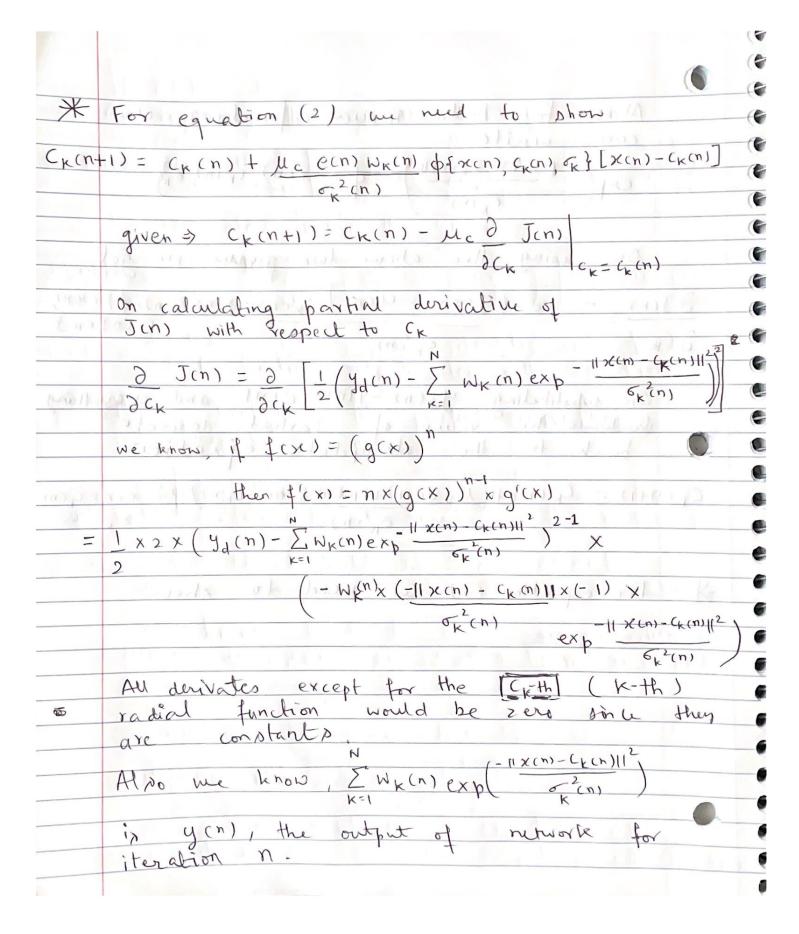
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	TROBLEM - 1
	21 (m) 1 1 williand as hard different to the
li .	Given -
- (()	OH-LAND AND A CONTRACTOR OF THE PARTY OF THE
Herr	$J(n) = \frac{1}{2} \left[y_d(n) - \sum_{k=1}^{\infty} W_k(n) \exp\left(-\frac{ x(n) - C_k(n) ^2}{\sigma_k^2(n)}\right) \right]$
200	
	who was a production to the south of a last
	the second of the second of the party
(1)	$W(n+1) = W(n) - \mu_W \int_{W=W(n)} w = W(n)$
	190 m John Garage
C \	C COLUMN CON LL 3 Tons
(2)	Ck(n+1) = Ck(n) - Mc & J(n) dck ck = ck(n)
	OCK ICK-CKEIT
(2)	σ _k (n+1) = σ _k (n) - μσ ∂ J(n)
(3)	$\partial \sigma_{\mathbf{k}} = \sigma_{\mathbf{k}}(\mathbf{n})$
	The Market of the Control of the Con
	Charles party to the state of t
*	For equation (1) we need to show
11/15	
	W(n+1) = W(n) + Line(n) 4(n), where 4(n)=
11/4	Εφ(x(n), c, σ, 7 φ{(x(n),
	Cn, cn}
0 11	author will ai (+) gentle yer,
	W(n+1) = W(n) - Um 2 J(n)
	(m) m = m (m) m = m (m)



= - (yd(n) - y(n)) x (d) We are given

y_d(n) = y(n) = e(n) [\$\forage \(\con \), \(\con \) On replacing me get = - ecn). \(\psi \) (n) W(n+1) = W(n) + Llwe(n) (n) (production) Blo Copia Estallarge of Stall &



for k-th radial function Can 6 k(n) exp ydin) - yin) xwkin)x[xin)-qin)xof (xin), dek 6 k (n) substituting y_(n) - y(n) = e(n) otto update CK(n+1) = CK(n) + Mce(n) WK(n) (x(n)-CKn)) of x(n), CK(n) Gran)

* For equation (3) we need to show $\frac{\sigma_{\kappa}(n+1) = \sigma_{\kappa}(n) + \mu_{\kappa}e(n) w_{\kappa}(n) + \sigma_{\kappa}(n) + \sigma_{\kappa}(n) + \sigma_{\kappa}(n) + \sigma_{\kappa}(n) + \sigma_{\kappa}(n) + \sigma_{\kappa}(n)}{\sigma_{\kappa}^{3}(n)}$ given => & (n+1) = 6 k (m) - Mo of J (m)

On calculating partial derivative of J (m)

with respect to 0 k

One calculating partial derivative of J (m)

With respect to 0 k

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With respect to 0 k

One calculating partial derivative of J (m)

With respect to 0 k

One calculating partial derivative of J (m) We know, f(x)= (g(x)) n-1
p(cx)= nx(g(x)) x g(cx) $\frac{1}{2} \times \left(\frac{y_{k}(n) - \sum_{i=1}^{N} w_{k}(n) \exp \left[-\frac{y_{k}(n) - (y_{k}(n))}{2} \right] \times \frac{1}{2} \right)$ - WK(n) x - 11x(n) - CK(n)112x (-3) x 1 x $= \frac{-11 \times (n) - (\kappa(n) 11^{2})}{\kappa(n)}$