Answer To The Question No: 4 Name: Mibula Id: 18101110

Local Guadient, $dj = \frac{-dE}{\delta V j}$ Overall envious $= e j' \rho'(V j')$

flager: St, = et, o'(Vf1) St2 = et2 o'(Vf2) St3 = ef3 o'(Vf3)

h layur: $dh_1 = \phi(V_{h_1}) \left(df_1 W_{f_1 h_1} + df_2 W_{f_2} h_1 + df_3 W_{f_3} h_2 \right)$ $dh_2 = \phi'(V_{h_2}) \left(df_1 W_{f_1 h_2} + df_2 W_{f_2} h_2 + df_3 W_{f_3} h_2 \right)$ $dh_3 = \phi(V_{h_3}) \left(df_1 W_{f_1 h_3} + df_2 W_{f_2} h_3 + df_3 W_{f_3} h_3 \right)$ $dh_4 = \phi(V_{h_4}) \left(df_1 W_{f_1 h_1} + df_2 W_{f_2} h_4 + df_3 W_{f_3} h_4 \right)$

Player: δρι = Φ'(νρι) (δηι ωηιρι + δης ωης Ρε + δης ωης Ρε + δης ωης Ρε) δρι = Φ'(νρι) (δηι ωηι βε + δης ωης βε + δης ωης βε + δης ωης βε) δρι = Φ'(νρι) (δηι ωηιβι + δης ωης βι + δης ωρς βι + δης

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m layer:

dm, = 9'(Vm,)(8p, Wp, m, +8p, Wem, +8p, Wp, m, +8p, Wp, +8p

dm2 = p(Vm2) (dp Wpm1+dp2Wp2my+dp3Wp3 m2+dpWpm) + dp5Wp5m2)

>m3 = 0 (m3)(3P3 UP1 m3 + 2P2 WE m3 + 2P3 WP3 m3 + 2P4 WP4 m3 + 2P5 WP5 m3)

Smu = p(Vmu) (Sp, Wp, mu + dp 2 Wp2 m4 + 2 p3 Wp3 m4 + dp Wp4 m2 + 2 p5 Wp5 m4)

Sm5 = P(Vm5)(SAWP1M5 + SP2WP2M5 + SP3WP3M5 +SP4WP4M5 + SP5WP5M5)

2mc = p/(/mc)(Sp, Wp, mc + Sp_Wp2mc+ Sp3Wp3mc + Sp4Wp4mc + Sp5 Wp5m6)