1005 K 2 Part 1: Show that good and max VT72 P(2) llvirad has the analytical solution . V= a Trop(2)11 For now lets ignore IIVII a and look at To Rownk the immer part of the org meet V'. 77 P(2) = 11 77 P(2) 11. 11/11. cos (0) innor product rule Obser vations: - 11VII = 1 bg Definition -11728(2)11 is a constant =) the term is mustimul, if cos(0) is maxima ( => @x cos(0) = 0 => V'. 72 P(z) = 11 \(\nu\_2\) g(z) // (=) V = 1728(z) 11 Dz 8(z)11 And to get back to 11v11 ca we just have to add of as a scaling factor-

Part 2: Darive the update Rule for 11.160 V= Q- To Par Ing(m) 11/2 8(2)160 Observations: - lo takes the max and since this => & · sign (72 P(2)) => 2 -> 2 + a. sign(7; f(2))