Lec 8. HWI J(ル、三)=(max(0,1-ルゆ(エ)y))+ の(エ) こめ(エ)+ か (og det(三) + tr(ごこ)+(ルール)ご(ルール) - d} 12 FIL, N = arguin 3(M, II) Z F A b.  $\frac{\partial}{\partial \mu} \vec{J}(\mu.\vec{z}) = \frac{\partial}{\partial \mu} \left[ \left( \max(0, (-\mu \vec{p}_{(x)}, y))^{2} \right) + 29 \tilde{z}^{-1} (\mu - \tilde{\mu}) \right]$ ①に割して. 1- M p(x) y ) 0 a 27. 0 - \frac{1}{900} (1-10) \frac{1}{900} = \frac{1}{900} | 11-10 \frac{1}{900} \frac{1}{ = -2 \$cx)q(1-ut\$(x) q) = -2\$(x) }([-y \$(x)] b) 51. gud = 0  $-) - \phi(x) g + \phi(x) g^2 \phi(x) u + \gamma \tilde{\Sigma}(u - \tilde{u}) = 0$ B= Sca)  $-9 \left( \oint (x) \oint (x) + \uparrow \stackrel{\sim}{\mathbb{Z}}^{-1} \right) \hat{\mu} = \oint (x) + \uparrow \stackrel{\sim}{\mathbb{Z}} \stackrel{\sim}{\mu}$   $D = \frac{1}{2} I$  $\rightarrow \hat{\mathcal{N}} = (\hat{\mathcal{T}}^{-1} + \phi(x) \phi(x))^{-1} (\hat{\mathcal{T}}^{-1} \tilde{\mathcal{N}} + \phi(x) \tilde{\mathcal{T}}), \quad c = \beta(x)$  $= \left(\widetilde{\Xi}^{-1} + \frac{1}{4} \phi_{CR} \right)^{-1} \left(\widetilde{\Xi}^{-1} \widetilde{\mu} + \frac{1}{4} \phi_{CR}\right)$ Woodbary or 1332  $= \begin{cases} \tilde{\Xi} - \tilde{\Xi} \phi(x) \left[ \gamma + \phi(x) \tilde{\Xi} \phi(x) \right] \phi(x) \tilde{\Xi} \right\} \left( \tilde{\Xi} u + \frac{1}{2} \phi(x) \right)$  $= \left( \frac{2}{2} - \frac{2 \phi(x) \phi(x)^{\frac{2}{2}}}{\phi(x)^{\frac{2}{2}} \beta(x)^{\frac{2}{2}}} \right) \left( \frac{2}{2} \hat{\mu} + \frac{4}{9} \phi(x) \right)$  $= \mathcal{N} + \frac{1}{2} \mathcal{Z} \phi(x) - \frac{\mathcal{Z} \phi(x) \phi(x)}{\phi(x)} \mathcal{L} + \mathcal{Z} \phi(x) \phi(x) \mathcal{Z} \phi(x) + \mathcal{Z} \phi(x) \phi(x) \mathcal{Z} \phi(x) + \mathcal{Z} \phi(x) + \mathcal{Z} \phi(x) \mathcal{Z} \phi(x) + \mathcal{Z} \phi(x)$  $= \frac{2}{100} - \frac{26(x)6(x)2}{6(x)^2} - \frac{2}{2}6(x)$  $= \widehat{\psi} + \frac{f(1-\widehat{\psi}\phi(x))}{\phi(x)^{\frac{1}{2}}\phi(x)} \widetilde{\Xi}\phi(x)$ 

-- \ (A)