LYNER PRACY Zed. 1 u(c; l) = (c+ /L Konsum peja cros wolny cros ne prece i cros woting = 1 e) W=1 mex (u) L = ? ile shonsumujeung! tyle ile zerobing c= w(1-4) tyle ile pecujemy u(ljo)=u(lj1)=11-11+11 mex u(1) kiedy? > pdy pochodne = 0 Jiso $u'(l) = \frac{\int u}{\int l} = \frac{1}{2} \left(\frac{1}{2} - 1 \right) + \left(-\frac{1}{2} \left(1 - l \right) \frac{\left(\frac{1}{2} - 1 \right)}{2} \right) = 0$ 1-1-2 (1-1)-2=0 $\frac{1}{2} \int_{-1}^{1/2} = \frac{1}{2} (1 - 1)^{-\frac{1}{2}}$ 1 = 1/2 (1-4) L= 1/2 b) w = w mex (u) c = w (1-1) ((w)=! TW(1-1) + TL u ((iw)=

mex u(l;w) to some procedure (0 \omega e) $u'(l_{j}\omega) = \frac{1}{2} l^{-\frac{1}{2}} - \frac{1}{2} \omega^{\frac{1}{2}} (1 - l)^{\frac{1}{2}} = 0$ $\int_{-\frac{1}{2}}^{2} l^{-\frac{1}{2}} = \int_{-\frac{1}{2}}^{2} \omega^{\frac{1}{2}} (1 - l)^{-\frac{1}{2}}$ $\frac{1}{1} = \omega \cdot \frac{1}{1-1}$ L = 1+2 c) L^s(w)=? L(w)= /tw $L^{s}(l) = 1 - l(\omega) \implies L^{s}(\omega) = 1 - l = 1 - \frac{1}{1+\omega} = \frac{\omega}{1+\omega}$ d) y(L)=(u(L), L=1-L cene produktu = 1 $L^{\alpha}(\omega) = !$ mex (Przychod - Koszt) = mex (Zysh) y= (1-1). (1-1). w mex { ln(1-l) - (1-l) ω} -) pochodue pryrs ωμη euny

pred "

+o nims) - (-1.ω) = 0 $t \frac{1}{1-L} = t\omega \implies \frac{1}{\omega} = 1 - L = L^{\alpha}(\omega)$ e) rounouepe > Ld(w)=L5(w) $\frac{1}{\omega} = \frac{\omega}{1+\omega} (=) (+\omega) = \omega^2 (=) 0 = \omega^2 - \omega - 1$ $\Delta = \frac{b^2 - 4ac}{x}$ $\times_1 = \frac{-b - 1\Delta}{2a}$ $\times_2 = \frac{-b + \sqrt{\Delta}}{2a}$ -(-1)- $\sqrt{5}$ = 1- $\sqrt{5}$ <0 > w vie moie by <0 $\Delta = (-1)^{2} - 4 \cdot 1 \cdot (-1) =$ = 1 + 4 = 5 $-(-1)+\sqrt{5}'=1+\sqrt{5}'$ Ld) L S popy + aighting 1 L'= 1+1 = 2 L = 1 f) the fisher bevotolie vie me

Ad f) Prece minime me =1 consti ue telim prionnie, jeh jest 5 vic sig vie mieni Prece minimelue = 2 $L^{S}(\omega) = \frac{\omega}{1+\omega} = \frac{2}{3}$ 4 2 2 $L^{d}(\omega) = \frac{1}{\omega} = \frac{1}{2}$ L5 > Ld polai vie liste od popytu Dystepnje berrobocie = = -1 = 1 Schaeliby 2, ele vie mops, bo Joggt re mistri