$$l_1(2) = \frac{1}{1+e^{-2}}$$
, $0 = \begin{bmatrix} 0_0 \\ 0_1 \\ 0_L \end{bmatrix}$ and $u = \begin{bmatrix} 1 \\ u_1 \\ u_L \end{bmatrix}$

$$\frac{\partial l(0)}{\partial \delta_0} = y \frac{\partial l(y)}{\partial \delta_0} + (1-y) \frac{\partial}{\partial \delta_0} + (1-y) \frac{\partial}{\partial \delta_0} + (1-y) \frac{\partial}{\partial \delta_0} = \frac{\partial l(y)}{\partial \delta_0} + \frac{\partial l($$

Using the chain rule, $\frac{\partial l(0)}{\partial 0} = y \frac{\partial log(2i)}{\partial r_i} \cdot \frac{h(y)}{\partial y} \cdot \frac{(0^7 x)}{\partial 0} + (1-y) \frac{\partial log(2i)}{\partial r_i} \frac{\partial (log(2i))}{\partial y} \frac{\partial (log(2i))}{\partial x} \frac{\partial (log(2i))}{\partial y} \frac{\partial (log(2i))}{\partial x} \frac{\partial (log(2i))}{\partial y} \frac{\partial (log(2i))}{\partial x} \frac{\partial (log(2i))}{\partial y} \frac$

where y = of u pul 2, = u ((() and 2 = 1-4 ()

Mow, using derivation of hand = 1

There

$$\frac{\partial h(n)}{\partial n} = h(n) \left(1 - h(n) \right) \quad \text{and} \quad O(n) = 00 \quad + 0, n + 0, n$$

$$\frac{\partial l(0)}{\partial 0} = \frac{41}{h(0^{7}n)} l(0^{7}n) (1 - l(0^{7}n))(1) - (1-4) (h(0^{7}n))$$

$$\frac{\partial l(0)}{\partial 0} = \frac{9 - 9 h(0^{7}n)}{4 + 9 h(0^{7}n)} - h(0^{7}n)$$

Similorly

$$\frac{\int d(0)}{\int d(0)} = n_1 y \left(1 - l_1(0^{\frac{1}{1}} l_1)\right) - \left(1 - l_1\right) u \left(1 + l_1(0^{\frac{1}{1}} l_1)\right)$$

$$\frac{\int l(0)}{\int d(0)} = n_1 \left(y - l_1(0^{\frac{1}{1}} l_1)\right)$$

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where no - leg (Pr) Quence = Qu This implies that the Eigeni Suchhluting this back into (1). in Pizze nie po jen po si je je Eight e Given hypothers, hope) = E[TG)[n;0]

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Therefore, the frediction is that they should not play