$$\frac{\partial}{\partial x} \left[\frac{\partial}{\partial y} (y - tx) \right] = \left[\frac{\partial}{\partial y} (y - tx) \right] \left[\frac{\partial}{\partial y} (y - tx) \right]$$

$$v(p, y - tx) = \alpha^{\alpha} (1 - \alpha)^{-\alpha} (y - tx) \cdot p^{-\alpha}$$

$$\bar{u} = \alpha^{\alpha} (1-\alpha)^{1-\alpha} (y-tx) p^{-\alpha}$$
Solve for p...
$$\bar{p}(x) = \alpha \left[\underbrace{(1-\alpha)^{1-\alpha} (y-tx)}_{I} \right]^{1/\alpha}$$

$$\frac{b}{a} = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} \left(\frac{a}{a} + \frac{b}{a} \right) \right] = \frac{a}{a} \left[\frac{a}{a} + \frac{b}{a} \right$$

$$\frac{2}{2} = \frac{1}{2} \int_{-\infty}^{\infty} f(k) = k^{\beta} \rightarrow k(f) = f^{\beta}$$

$$= \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} f(k) = \int_{-\infty}^{\infty}$$

$$\frac{b}{a} = \int_{a}^{a} (p) = \int_{a}^{b} (p) p - \int_{a}^{b} (p)^{3} C_{k}$$

$$= \left(\frac{g}{c_{k}} p\right)^{1-\beta} p - \left(\frac{g}{c_{k}} p\right)^{1-\beta} C_{k}$$

$$= \left(\frac{g}{c_{k}} p\right)^{1-\beta} - g^{1-\beta} C_{k}$$

$$\pi^{*}(p) = \left(\frac{g}{c_{k}} p\right)^{1-\beta} P^{1-\beta} (1-\beta)$$