$$MAX + (X)$$

 $(X) = C, j=1,2,... = J$
 $h_{\ell}(X) = J_{\ell}(X) = J_{$

$$\frac{\partial f(x)}{\partial x_{i}} = \sum_{i=1}^{\infty} \lambda_{i} \frac{\partial g_{i}(x)}{\partial x_{i}} + \sum_{\ell=1}^{\infty} \lambda_{\ell} \frac{\partial h_{\ell}(x)}{\partial x_{i}}$$

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$$-\frac{\alpha W}{P_{\chi^{2}}} : \overline{u} \left(\frac{x l_{n}}{1 - x} \right)^{\frac{1}{2}} I_{\chi} \left(x - 1 \right) - \frac{\alpha W}{P_{\chi}} \frac{\alpha}{\sqrt{x}}$$

$$u(x, y) = x^{2} y^{1 - x} - \frac{\alpha W}{P_{\chi^{2}}} = \overline{u}$$

$$x' = \frac{\alpha W}{P_{\chi}}$$

$$y' = \frac{\alpha W}{\sqrt{y}}$$

$$v = W \left(\frac{x}{\sqrt{x}} \right)^{\frac{1}{2}} \left(\frac{1 - x}{\sqrt{y}} \right)^{\frac{1}{2}}$$

$$v = \frac{1}{\sqrt{y}} \left(\frac{x}{\sqrt{x}} \right)^{\frac{1}{2}} \left(\frac{1 - x}{\sqrt{y}} \right)^{\frac{1}{2}}$$

$$v = \overline{u} \left(\frac{x}{\sqrt{x}} \right)^{\frac{1}{2}} \left(\frac{1 - x}{\sqrt{y}} \right)^{\frac{1}{2}}$$

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$$-\frac{\alpha W}{P_{\chi^{2}}} : \overline{u} \left(\frac{x \ln x}{1-x} \right)^{1-x} \alpha \left(\frac{x \ln x}{x} \right) - \frac{\alpha W}{P_{\chi}} \cdot \frac{\alpha}{\sqrt{x}}$$

$$-\frac{\alpha W}{P_{\chi}} = \overline{u} \left(\frac{\ln x}{1-\alpha} \right)^{1-x} \alpha \left(\frac{\ln x}{\sqrt{x}} \right) - \frac{\alpha^{2}W}{\ln x}$$

$$\alpha^{1}W - \Lambda W = \alpha W \left(\alpha^{-1} \right) = \overline{u} \left(\frac{\ln x}{\sqrt{x}} \right)^{1-\alpha} \left(\frac{\ln x}{\sqrt{x}} \right)$$

$$W = \overline{u} \left(\frac{\ln x}{\sqrt{x}} \right)^{1-\alpha} \left(\frac{\ln x}{\sqrt{x}} \right)^{1-\alpha}$$