$$\frac{\left(\frac{\partial\varrho}{\partial b}\right)_{c}}{\left(\frac{\partial a}{\partial v}\right)_{c}} = -\frac{1}{v^{2}} \left(\frac{\partial v}{\partial b}\right)_{c}}$$

$$\frac{\left(\frac{\partial a}{\partial v}\right)_{c}}{\left(\frac{\partial a}{\partial \varrho}\right)_{c}} = -v^{2} \left(\frac{\partial a}{\partial v}\right)_{c}}$$

$$\frac{\left(\frac{\partial^{2}v}{\partial b^{2}}\right)_{c}}{\left(\frac{\partial^{2}v}{\partial b^{2}}\right)_{c}} = ??$$

$$\frac{\left(\frac{\partial^{2}\varrho}{\partial b^{2}}\right)_{c}}{\left(\frac{\partial^{2}\varrho}{\partial b^{2}}\right)_{c}} = ??$$

 $\left(\frac{\partial v}{\partial b}\right) = -\frac{1}{\rho^2} \left(\frac{\partial \varrho}{\partial b}\right)$

 $\frac{\left(\frac{\partial^{2} \varrho}{\partial b^{2}}\right)_{c} = ??}{\left(\frac{\partial^{2} a}{\partial v^{2}}\right)_{c} = 2\varrho^{3}\left(\frac{\partial a}{\partial \varrho}\right)_{c} + \varrho^{4}\left(\frac{\partial^{2} a}{\partial \varrho^{2}}\right)_{c}}$ $\left(\frac{\partial^{2} a}{\partial o^{2}}\right)_{c} = 2v^{3}\left(\frac{\partial a}{\partial v}\right)_{c} + v^{4}\left(\frac{\partial^{2} a}{\partial v^{2}}\right)_{c}$