DR= input (sell) ant. let a = input reserves sa split traction 20851 y = output receives 8= 1- fee

a split between 2 pools.

(total output) = 4:8. Dn. (1-5)

n, +80n. S

22. Dn (1-5) df = (n, + x Dn.s) yr Dn - yr Dn.s (r Dn) (n,+80n)2 + (n, TDn(1-5)) (-y, In) + 72 04 (1-5) 5081 [n;+ von(1-5)]2

= 12,80 MS)2 - 22/2 DM [2,480MS)2 (22 +80M(1-5))2

when managinal rate of return is some for both pools.

Similarly,

 $\frac{d^2f}{ds^2} = -\frac{\partial n_1 y_1 x^2 \Delta n^2}{(n_1 + x \Delta n)^2} = \frac{\partial n_2 y_2 x^2 \Delta n^2}{(n_2 + x \Delta n)^2}$

volvier means det is <0 2 optima exists.