

Define a new variable 11th

- i) It is assumed to be positive
- 2) Not a placeholding for a value to be filled in later, but a formule surrogade for

DEVERY POSITIVE STEADY State in the class of systems represented by N = S(N) - D(N)

What determines the studility of N#?

The disvolue... which we will not start cally as eighthure:

$$\lambda = \frac{\partial}{\partial n} \dot{n} =$$

These are unknown parameters in the System.

BOT hand to interpret biologically (slope of puction @ Bixed point)

we will use the identity:

Proof of
$$\frac{1}{N^{N}} \frac{1}{3\log N} = \frac{S(N^{N})}{3\log N} \frac{1}{N^{N}} \frac{S(N)}{3\log N} = \frac{1}{N^{N}} \frac{3S(N)}{3\log N} = \frac{1}{N^{N}} \frac{3S(N)}{3N} = \frac{1}{N^{N}} \frac{3S(N)}{3\log N} = \frac{1}{N^{N}} \frac{3S(N)}{3\log N} = \frac{1}{N^{N}} \frac{3\log N}{3\log N} = \frac{1}{N^{N}} \frac{3\log N}{N^{N}} = \frac{1}{N^{N}} \frac{3\log N}{N^{N}} = \frac{1}{N^{N}} \frac{3\log N}{N^{N}}$$