onsdag 4 januari 2023

$$y' = ry(K-y) \iff y' \cdot \frac{1}{y(K-y)} = r \iff$$

$$= r \int \frac{1}{y(K-y)} dy = \int r dt \iff \int \frac{A}{y} + \frac{B}{k-y} dy = rt + c \iff$$

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$$1 = AK - Ay + By$$
  $AK = 1$   $B - A = 0$   
 $A = \frac{1}{K}$   $B = \frac{1}{K}$ 

$$\frac{1}{K} \frac{1}{y} + \frac{1}{K-y} dy = r + c \iff \frac{1}{K} (\ln |y| - \ln |K-y|) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r + c \iff \frac{1}{K} \left( \ln \left| \frac{y}{K-y} \right| \right) = r$$

$$4 \Rightarrow y = KEe^{krt} - yEe^{krt} \Rightarrow y(1+Ee^{krt}) = KEe^{krt} \Rightarrow$$

$$\lim_{\alpha \to \infty} y(\alpha) = \frac{e}{e^{trt}} \cdot \frac{KE}{\sqrt{e^{trt} + t}} = 1 \cdot K = 10^{5}$$

$$\sqrt{kE} = 1 \cdot K = 10^{5}$$

$$y(6) = \frac{10^{5} E}{1+E} = 10^{5} \cdot \frac{E}{1+E} = 10^{4} \Leftrightarrow 10^{4} =$$

$$4 = \frac{10^{5} \cdot r}{9 + e^{10^{5} \cdot r}} = \frac{1}{5} \iff 9(1) = \frac{4}{5} e^{10^{5} \cdot r} = 9 + e^{10^{5} \cdot r} \iff 9(1) = \frac{1}{5} e^{10^{5} \cdot r} = \frac{1}{5} e$$

$$\xi^{2} y(1) = e^{h^{5} \cdot x} = \frac{9}{4} \quad \xi^{2} y(1) = x = \frac{10^{-5} \cdot h}{9^{4}}$$

$$\int_{0}^{-5} (-1)^{-5} \cdot \ln \frac{9}{4}$$

$$S_{V-} = lo^{-5} ln (9/4)$$

$$K = lo^{5}$$