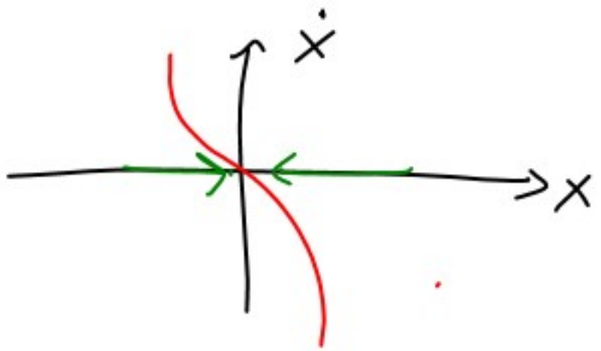
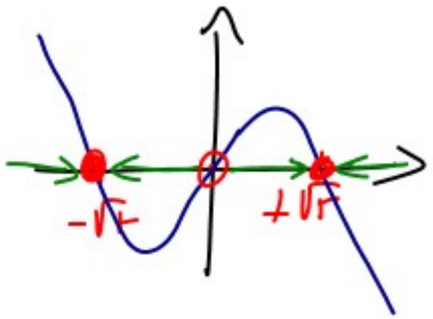
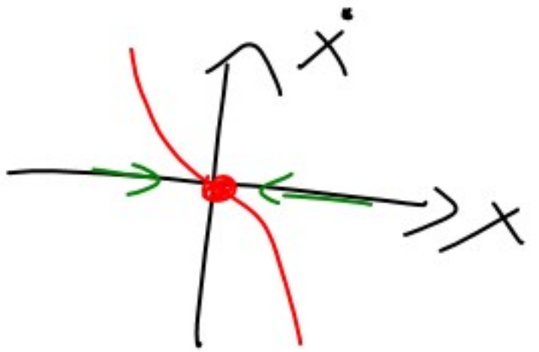
$\dot{x} = x(r - x^2)$







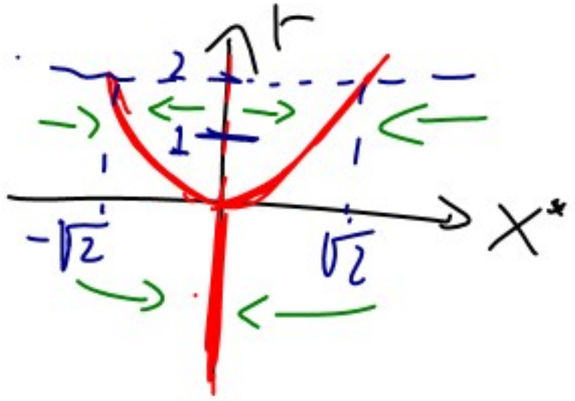
$r = 0$

$r > 0$

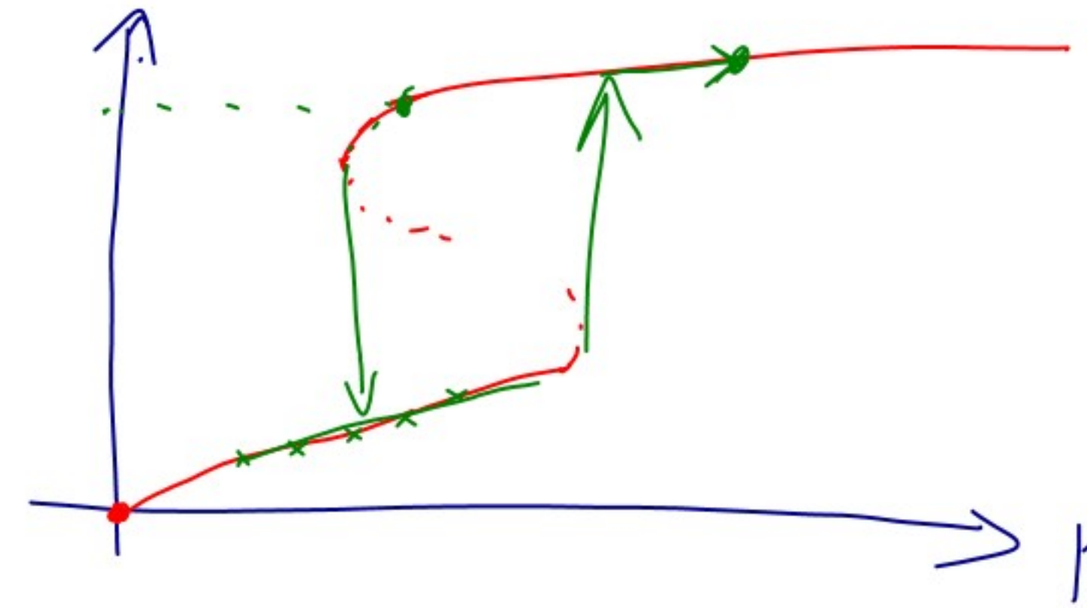
$r < 0$

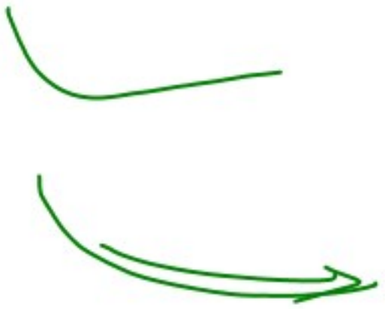
$\dot{x} = 0 = x(r - x^2)$

$r = x^2$



X % USD EN LAS DEMANDAS EFECTIVO





Y

% CRECIMIENTO EMIS MONET

GOODWIN

$$\frac{\dot{w}}{w} = -\gamma + b\nu$$

$$\nu = \frac{k}{n}$$

$$\varphi = \frac{k}{\sigma} = \alpha k$$

$$u = \frac{w \cdot k}{\varphi} = \frac{w k}{\alpha k} = \frac{w}{\alpha}$$

$$\frac{\dot{u}}{u} = \frac{\dot{w}}{w} - \frac{\dot{\alpha}}{\alpha}$$

$$\dot{k} = (1-u)\varphi$$

$$\frac{\dot{u}}{u} = -\gamma + b\nu - \alpha$$

$$k = \frac{\varphi}{\alpha} \qquad \frac{\dot{k}}{k} = \frac{\dot{\varphi}}{\varphi} - \frac{\dot{\alpha}}{\alpha}$$

α

$$\ell = \frac{q}{a} \Rightarrow \frac{\dot{\ell}}{\ell} = \frac{\dot{q}}{q} - \frac{\dot{a}}{a} = \frac{\dot{q}}{q} - \alpha = \frac{(1-\mu)}{\sigma}\frac{q}{q} - \alpha$$

$$q = \frac{k}{\sigma} \qquad \dot{q} = \frac{\dot{k}}{\sigma} = \frac{(1-\mu)q}{\sigma}$$

$$\dot{k} = (1-\mu)q$$

$$\frac{\dot{\ell}}{\ell} = \frac{1-\mu}{\sigma} - \alpha$$

$$\nu = \frac{\ell}{n}$$

$$\frac{\dot{\nu}}{\nu} = \frac{\dot{\ell}}{\ell} - \frac{\dot{n}}{n} = \frac{1-\mu}{\sigma} - \alpha - \varphi$$

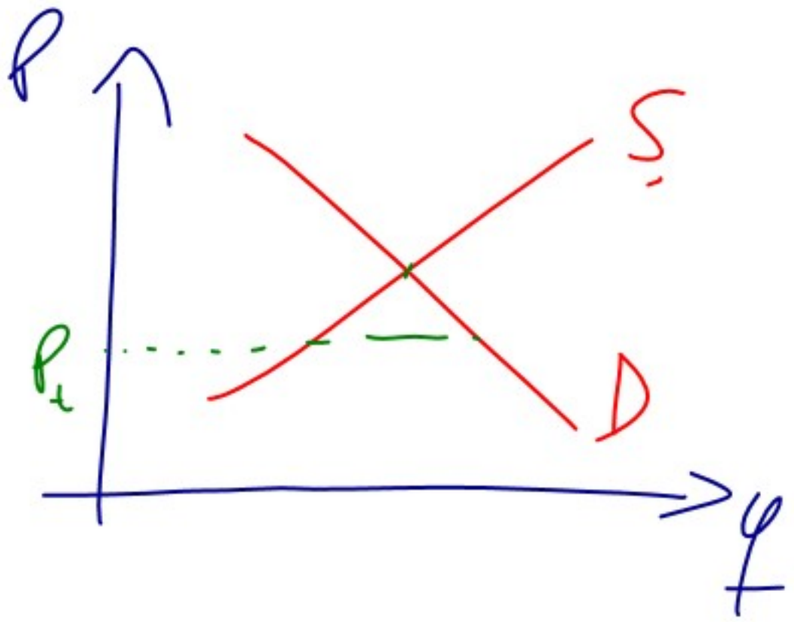
$$\dot{\nu} = \left(\frac{1-\mu}{\sigma} - \alpha - \varphi\right)\nu$$

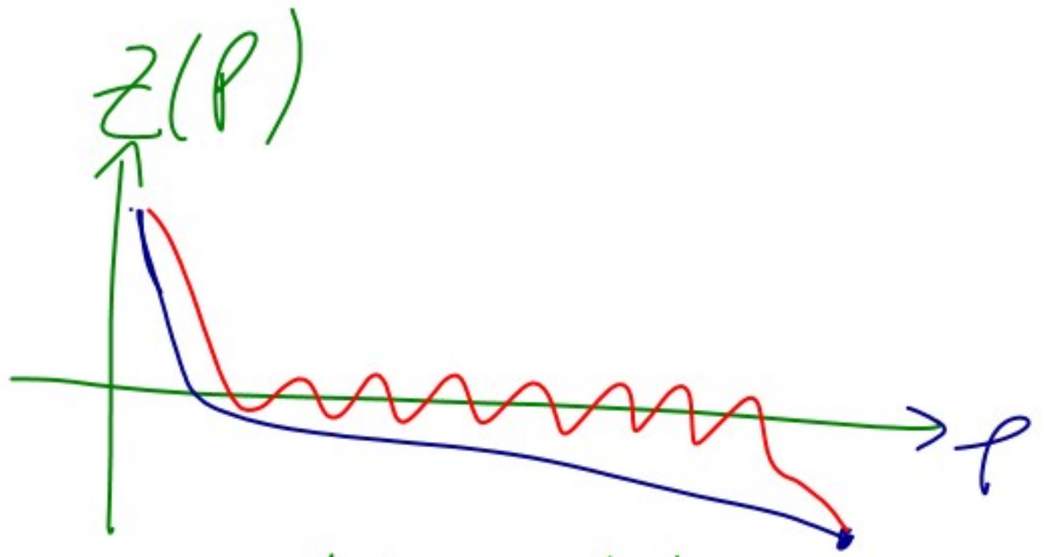
$$\dot{u} = (-\delta + b\nu - \alpha)u$$

$$x = \frac{y}{z}$$

$$\frac{\dot{x}}{x} = \frac{\dot{y}}{z\frac{y}{z}} - \frac{\dot{z}\,y}{z^2\,\frac{y}{z}}$$

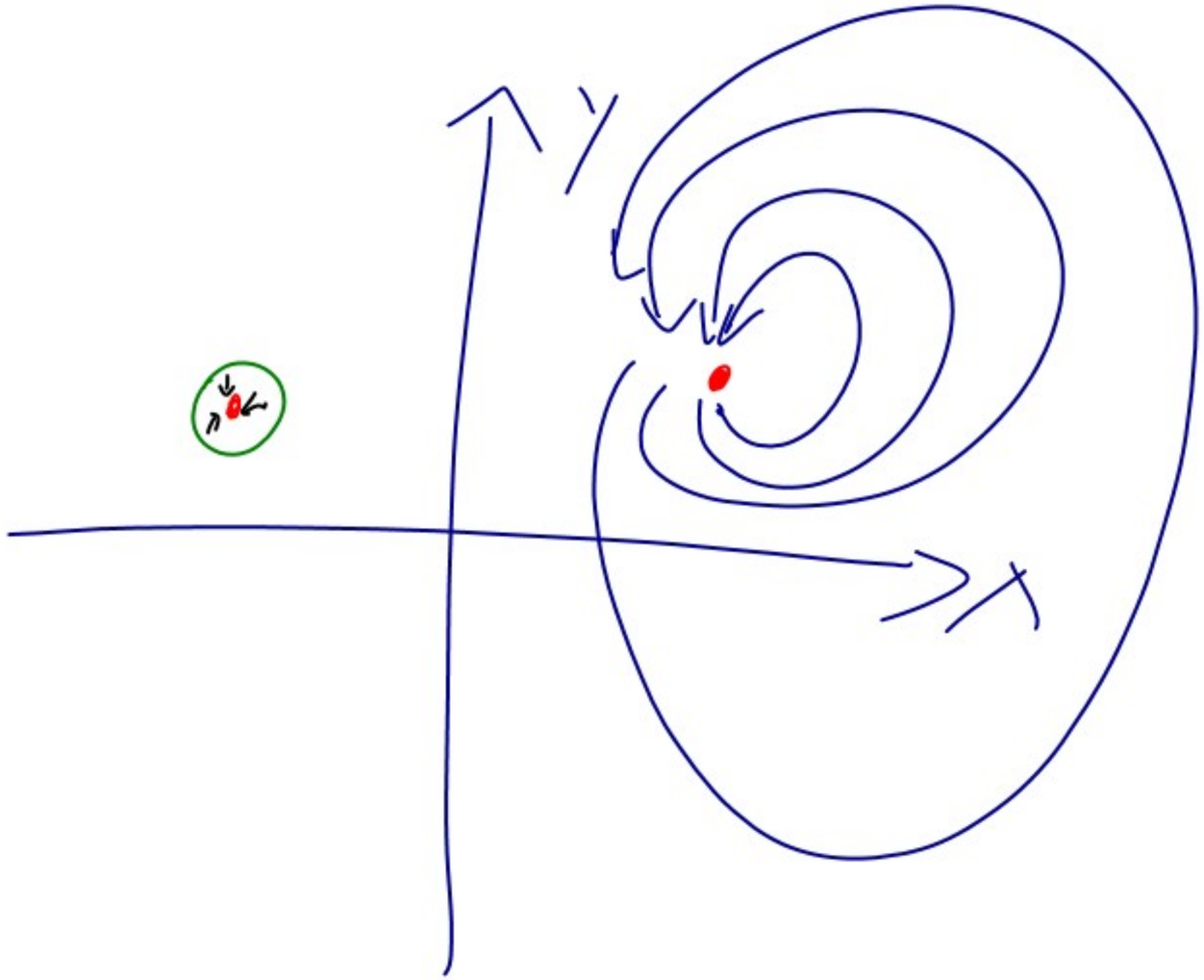
$$\frac{\dot{x}}{x} = \frac{\dot{y}}{y} - \frac{\dot{z}}{z}$$





$$Z(P) = D(P) - S(P)$$

$$\dot{P}_i = f\left(\frac{Z_i(P)}{D_i(P)}\right)$$


y
x