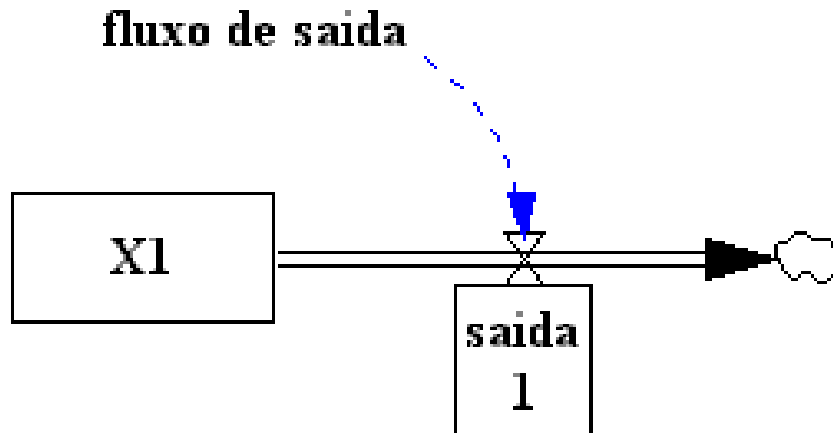
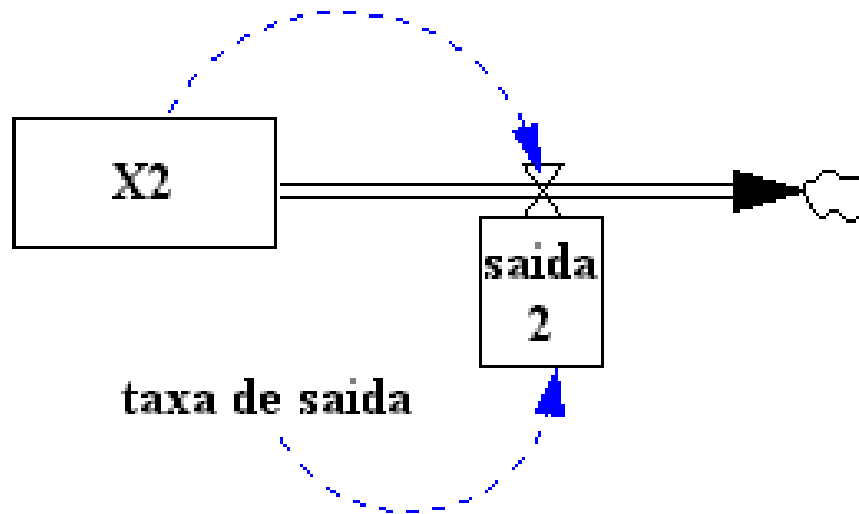
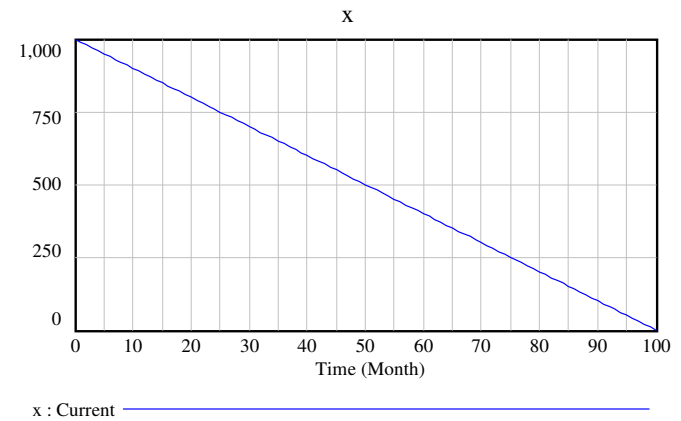


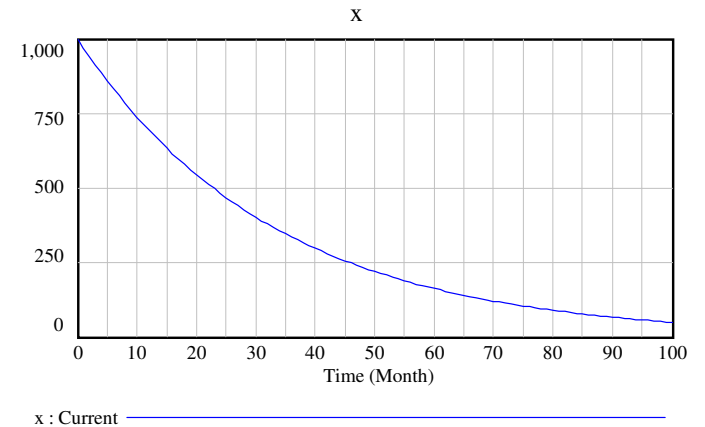
Taxas e fluxos



$$X1(t+dt) = X1(t) - dt * (saida)$$

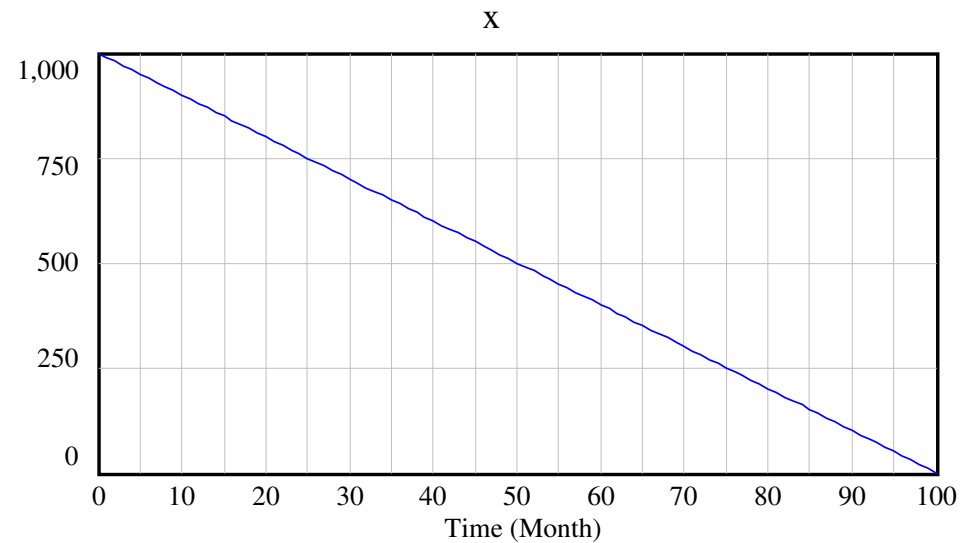
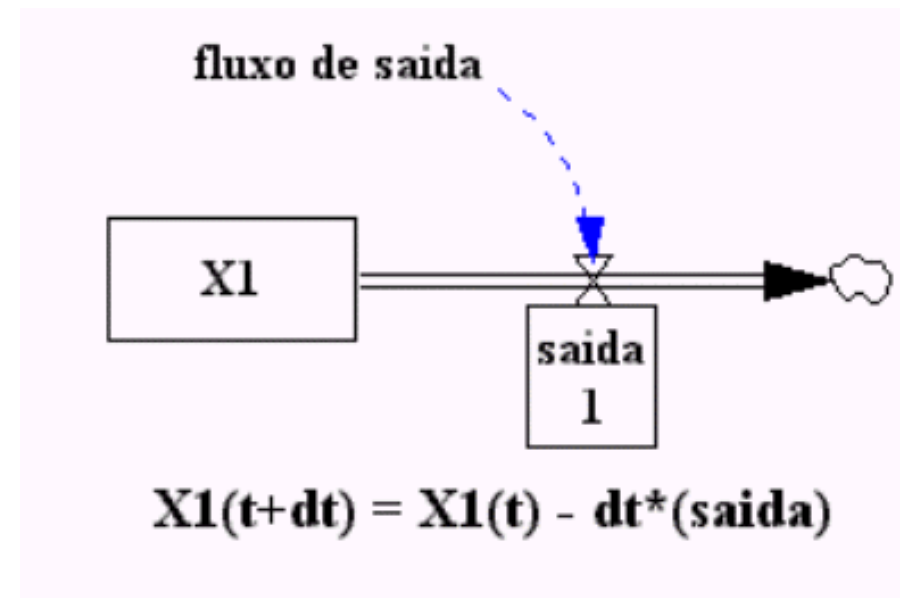


$$X2(t+dt) = X2(t) - dt * (taxa * X2(t))$$



Solução Analítica

$$X_t = X_0 - \text{saida} * t$$



x : Current

Solução Analítica

$$\frac{X_{t+dt} - X_t}{dt} = -taxa \times X_t$$

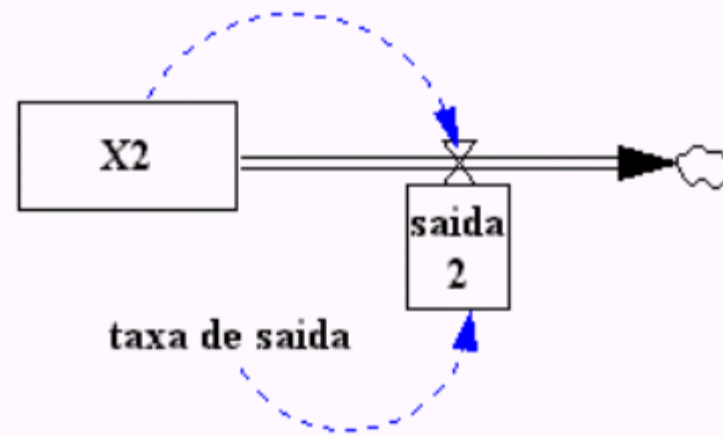
$$\frac{dX}{dt} = -taxa \times X$$

$$\int_{X_0}^{X_t} \frac{dX}{X} = \int_0^t -taxa \times dt$$

$$X_t = X_0 \times e^{-taxa \times t}$$

Meia vida

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$$X2(t+dt) = X2(t) - dt * (taxa * X2(t))$$

