1. Goodwin/Keen model of an economy

This is a model from Keen (1995), later elaborated by Grasselli and Costa Lima (2012). In the equations below λ represents employment rate (fraction of the work force employed); ω represents the wages share of national income; w represents workers wages as a function of the unemployment rate λ. (This is the simplest version of the model!)
$\frac{d\lambda}{dt} = \lambda(\frac{1-\omega}{v} - \alpha - \beta - \gamma)$
$\frac{d\omega}{dt} = \omega(w(\lambda)) - \alpha)$
Where $w(\lambda) = \frac{A}{(B-C\lambda)^2-D}$

You can look at making $w(\lambda)$ a simpler function, and the papers Keen (1995) Costa Lima (2012).