

Worms and Robins

Blake, Math 32L

The following system of differential equations models the predator-prey interaction as represented by populations of worms, $w(t)$, and robins, $r(t)$.

$$\frac{dw}{dt} = w - rw$$

$$\frac{dr}{dt} = -r + rw$$

The image below shows a computer-generated phase plane for this system of differential equations.

