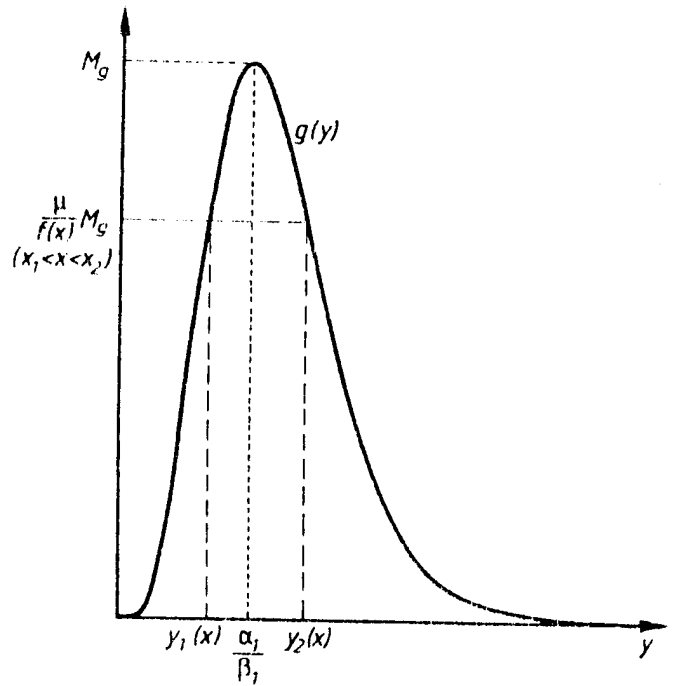


$$f(x) = \frac{x^{\alpha_2}}{e \beta_2^x}, \quad x > 0$$

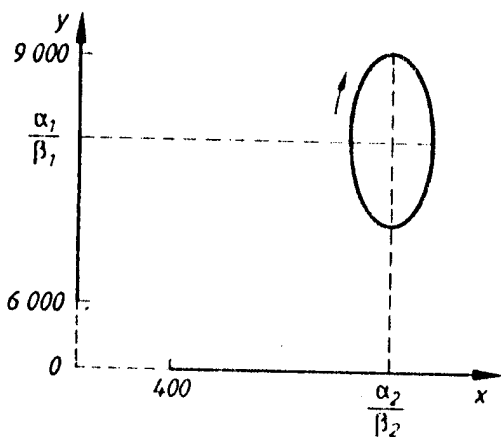


$$g(y) = \frac{y^{\alpha_1}}{e \beta_1^y}, \quad y > 0$$

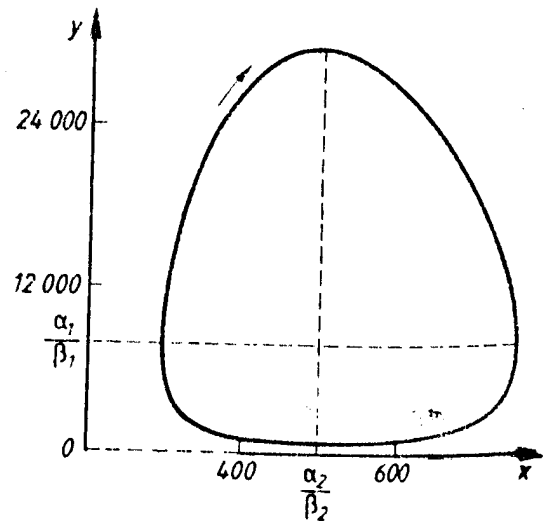
Trajektorien des Räuber - Beute - Modells:

$$\begin{aligned} \dot{x} &= -\alpha_1 x + \beta_1 x y \\ \dot{y} &= \alpha_2 y - \beta_2 x y \end{aligned}$$

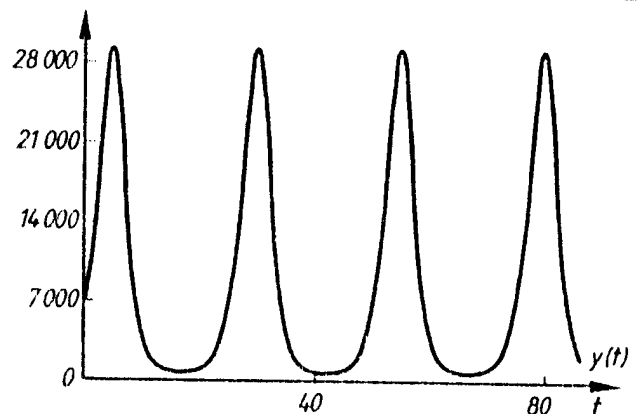
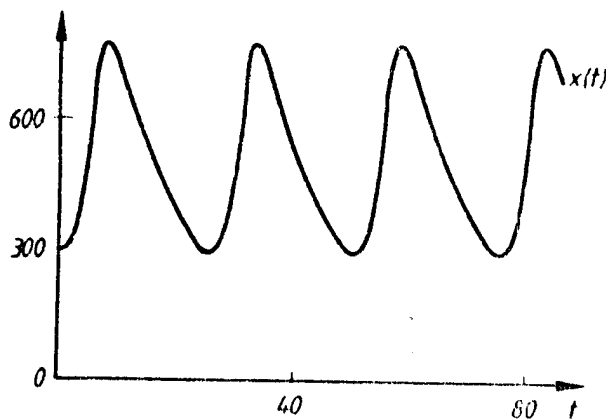
$$(\alpha_1 = 0,008; \alpha_2 = 1,0; \beta_1 = 0,000001; \beta_2 = 0,002)$$



$$x(0) = 500, \quad y(0) = 7000$$



$$x(0) = 300, \quad y(0) = 7000$$



Lösungskurven $x(t), y(t)$ mit $x(0) = 300, y(0) = 7000$