$$\frac{B \cdot p \cdot 06}{y} = x \cdot (t) \qquad \dot{x} = f(x, y) = -\frac{x}{(x^2 + y^2)^{\frac{1}{2}}}$$

$$y = y \cdot (t) \qquad \dot{y} = q \cdot (x, y) = -\frac{y}{(x^2 + y^2)^{\frac{1}{2}}}$$

$$x \cdot (0) = 1, \ y \cdot (0) = 1, \ \dot{x} \cdot (0) = -1, \ \dot{y} \cdot (0) = \frac{1}{3} \implies EU_{lipse \ in \ xy - Ebene}$$

$$y \cdot \dot{x} - d_{lim} \quad System \quad 1, \ 0 = d_{manq}$$

$$\dot{w} = F(w), \quad w(0) = w_{0}$$

$$w = w(t) = (x|t), \ \dot{x}(t), \ y(t), \ \dot{y}(t))$$

$$d(t) = \dot{x}(t)$$

$$b(t) = \dot{x}(t)$$

$$c(t) = \dot{y}(t)$$

$$d(t) = \dot{y}(t)$$

$$d(t$$