

$$\frac{?}{n}$$

$$\frac{dx^{(1)}}{dt}=F_1(x^{(1)},x^{(2)},...,x^{(n)}),$$

$$\frac{dx^{(2)}}{dt}=F_2(x^{(1)},x^{(2)},...,x^{(n)})$$

$$\frac{dx^{(n)}}{dt}=F_n(x^{(1)},x^{(2)},...,x^{(n)}),$$

$$(2) \quad \frac{d\vec{x}(t)}{dt} = \vec{F}[\vec{x}(t)],$$

$$\frac{\vec{x}}{t}$$

$$\frac{\vec{F}}{\vec{x}(0)}$$

$$\frac{\vec{x}(t)}{t > 0}$$

$$\frac{?}{?} = \frac{3}{3}$$

$$(x^{(1)},x^{(2)}x^{(3)})$$

$$3d.pdf Orbit in the three dimensional phase space$$

$$\frac{t}{1,2,3,\ldots}$$

$$\vec{x}_{t+1} = \vec{M}(\vec{x}_t)(3)$$

$$\frac{\vec{x}_t}{\vec{x}_t} = (x_t^1,x_t^2,...,x_t^n)$$

$$\frac{\vec{M}}{\vec{x}_t}$$

$$\frac{\vec{x}_0}{t} = \frac{1}{1}$$

$$\frac{\vec{x}_1}{\vec{x}_1} = \vec{M}(\vec{x}_0)$$

$$\frac{\vec{x}_1}{t} = \frac{1}{1}$$

$$\frac{\vec{x}_1}{t} = \frac{1}{1}$$

$$\frac{\vec{x}_2}{\vec{x}_2} = \vec{M}(\vec{x}_1)$$

$$\frac{\vec{x}_0}{\vec{x}_0,\vec{x}_1,\vec{x}_2,\ldots}$$

$$\frac{?}{?} = \frac{1}{1}$$

$$\frac{S}{S} = \frac{x^3}{constant}$$

$$\frac{?}{?} = \frac{e}{e}$$

$$\frac{n}{n} = \frac{(x_n^{(1)},x_n^{(2)})}{(x_{n+1}^{(1)},x_{n+1}^{(2)})}$$

$$\frac{n}{n} = \frac{1}{N}$$

$$\frac{1}{N} = \frac{1}{N}$$

$$\frac{H}{H} = \frac{H(p,q,t)}{H(p,q,t)}$$

$$\frac{p}{q} = \frac{N}{N}$$

$$\frac{N}{2N} = \frac{N}{2N}$$

$$(4) \quad \frac{dp}{dt} = -\frac{\partial H(p,q,t)}{\partial q},$$