Fot
$$A = \left(\frac{\partial}{\partial y}(y-x) - \frac{\partial}{\partial z}(x-z), \frac{\partial}{\partial z}(z-y) - \frac{\partial}{\partial x}(y-x), \frac{\partial}{\partial x}(x-z) - \frac{\partial}{\partial y}(x-y)\right)$$

$$= (1+1, 1+1, 1+1) = (2, 2, 2)$$

(2)
$$A = (-bsine, acose, bsine - acose)$$

$$\frac{dH}{d\theta} = (-asine, bcose, o)$$

$$\int_{C} A dH = \int_{C}^{2\pi} A \frac{dH}{d\theta} d\theta$$

$$\int_{C} A dt = \int_{0}^{2\pi} A \frac{dn}{d\theta} d\theta$$

$$= \int_{0}^{2\pi} (ab \sin^{2}\theta + ab \cos^{2}\theta) d\theta$$

$$= \int_{0}^{2\pi} ab d\theta = 2\pi ab$$

$$\frac{\partial H}{\partial \theta} = (-\alpha(1-t)\sin\theta - b(1-t)\cos\theta - 0)$$

$$\frac{\partial H}{\partial t} = (-\alpha\cos\theta - b\sin\theta - 1)$$

$$\frac{\partial H}{\partial \theta} \times \frac{\partial H}{\partial t} = \left(b(1-t)\cos\theta, \alpha(1-t)\sin\theta, \alpha b(1-t)\sin^2\theta + \alpha b(1-t)\cos^2\theta\right)$$

$$= \left(b(1-t)\cos\theta, \alpha(1-t)\sin\theta, \alpha b(1-t)\right)$$

$$\left|\frac{\partial H}{\partial \theta} \times \frac{\partial H}{\partial \epsilon}\right| = (1-t) \int b^2 \cos^2 \theta + \alpha^2 \sin^2 \theta + \alpha^2 b^2$$

$$h = \frac{\frac{\partial H}{\partial \theta} \times \frac{\partial H}{\partial \epsilon}}{\left| \frac{\partial H}{\partial \theta} \times \frac{\partial H}{\partial \epsilon} \right|} = \frac{1}{\int b^2 \cos^2 \theta + a^2 \sin^2 \theta + a^2 b^2} \left(b \cos \theta, a \sin \theta, a b \right)$$