$$\nabla \alpha \vec{F} = \begin{vmatrix} i & i & k \\ j\alpha & j\beta & j\alpha \\ \frac{1}{2} & \frac{1}{2} & \frac{\alpha \beta}{2^{1}} \end{vmatrix}$$

$$= \left\langle -\frac{\alpha}{2L} + \frac{\alpha}{2r}, -\frac{3}{2L} + \frac{3}{2r}, \frac{1}{2} - \frac{1}{2} \right\rangle = 0, \text{ (onservalize)}$$

$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{1$$

$$(2) Q = \frac{2}{3} \qquad Q = \frac{2}{3} \qquad Q = \frac{2}{3}$$