$$\hat{F}(\hat{z}) = -Y \frac{x\hat{i} + y\hat{j} + \hat{z}\hat{k}}{z^{3}}$$

$$= -Y \frac{\hat{i}}{n^{2}}$$

$$= -Y \frac{1}{n^{2}} \hat{z}$$

$$= -Y \frac{1}{n^{2}} \hat{z}$$

$$\hat{z} = \frac{\hat{z}}{n^{2}}$$

$$= -Y \frac{1}{n^{2}} \hat{z}$$

$$\hat{z} = \frac{\hat{z}}{n^{2}}$$

$$+ (\frac{\partial}{\partial z} F_{x} - \frac{\partial}{\partial x} F_{x})\hat{z}$$

$$+ (\frac{\partial}{\partial z} F_{y} - \frac{\partial}{\partial x} F_{x})\hat{z}$$

$$+ (\frac{\partial}{\partial x} F_{y} - \frac{\partial}{\partial x} F_{x})\hat{z}$$

$$= -Y \frac{\partial}{\partial y} \left[\frac{z}{(x^{2} + y^{2} + z^{2})} \hat{z}/z \right]$$

$$= -Y \frac{\partial}{\partial y} \frac{z}{(x^{2} + y^{2} + z^{2})} \hat{z}/z$$

$$= -Y \frac{\partial}{\partial y} \frac{z}{(x^{2} + y^{2} + z^{2})} \hat{z}/z$$

$$\frac{\partial}{\partial z} F_{g} = -V \frac{\partial}{\partial z} \left(\frac{y}{x^{2} + \theta^{2} + z^{2}} \right)^{3/2}$$

$$= -V \cdot 3 \frac{G \cdot Z}{(x^{2} + \theta^{2} + z^{2})} \frac{5/2}{5/2}$$

$$\frac{\partial}{\partial z} F_{z} - \frac{\partial}{\partial z} F_{g} = 0$$

$$\frac{\partial}{\partial z} F_{g} = 0$$