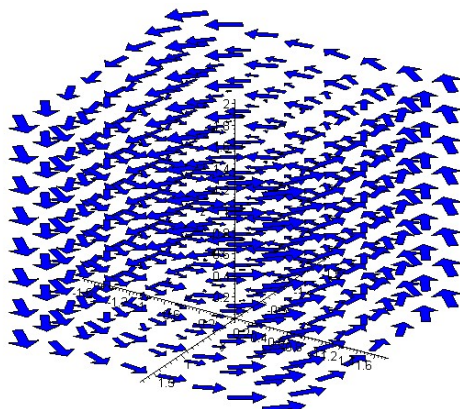
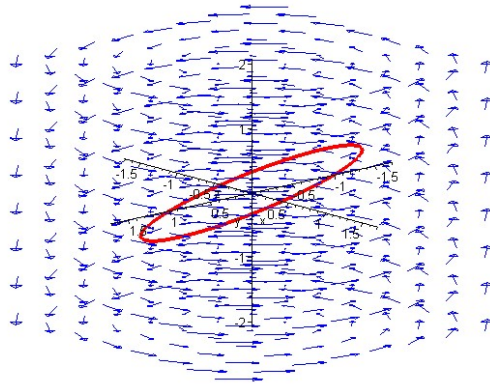


$$\vec{\mathbf{F}} = \langle -y, \ x, \ 0 \rangle$$



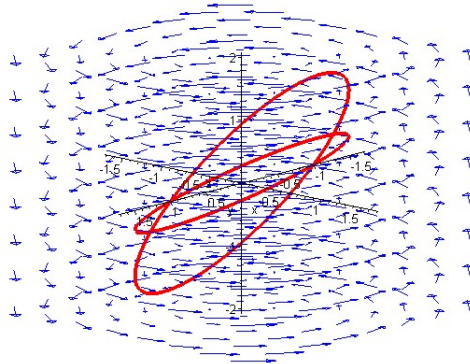
$$\vec{\mathbf{F}} = \langle -y, \ x, \ 0 \rangle$$

$$C_1 \ : \ \vec{\mathbf{r}} = \langle \cos t, \ \sin t, \ \sin t \rangle \qquad 0 \leq t \leq 2\pi$$



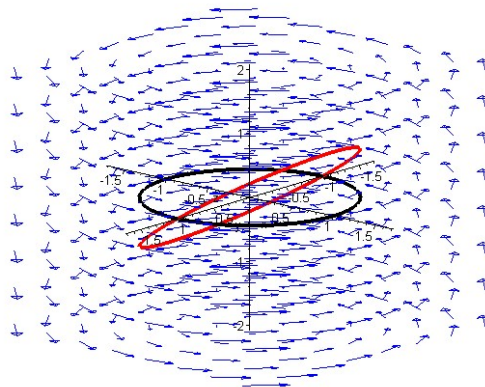
$$\vec{\mathbf{F}} = \langle -y, \ x, \ 0 \rangle$$

$$C_2 \ : \ \vec{\mathbf{r}} = \langle \cos t, \ \sin t, \ 2 \sin t \rangle \qquad 0 \leq t \leq 2\pi$$



$$\vec{\mathbf{F}} = \langle -y, \ x, \ 0 \rangle$$

$$C_3 \ : \ \vec{\mathbf{r}} = \langle \cos t, \ \sin t, \ 0 \rangle \qquad 0 \leq t \leq 2\pi$$



$$\vec{\mathbf{F}} = \langle -y, \ x, \ 0 \rangle$$

$$\nabla \times \vec{\mathbf{F}} = 2\vec{\mathbf{k}}$$

