$$P = I^{2}R = \frac{\xi R}{(R + \frac{1+\sqrt{5}}{2}r)^{2}} R^{2}$$

$$\frac{dP}{dR} = \frac{(R + \frac{1+\sqrt{5}}{2}r)^{2}}{(R + \frac{1+\sqrt{5}}{2}r)^{4}} \frac{Q}{(R + \frac{1+\sqrt{5}}{2}r)^{4}}$$

$$R + 1 + 15$$

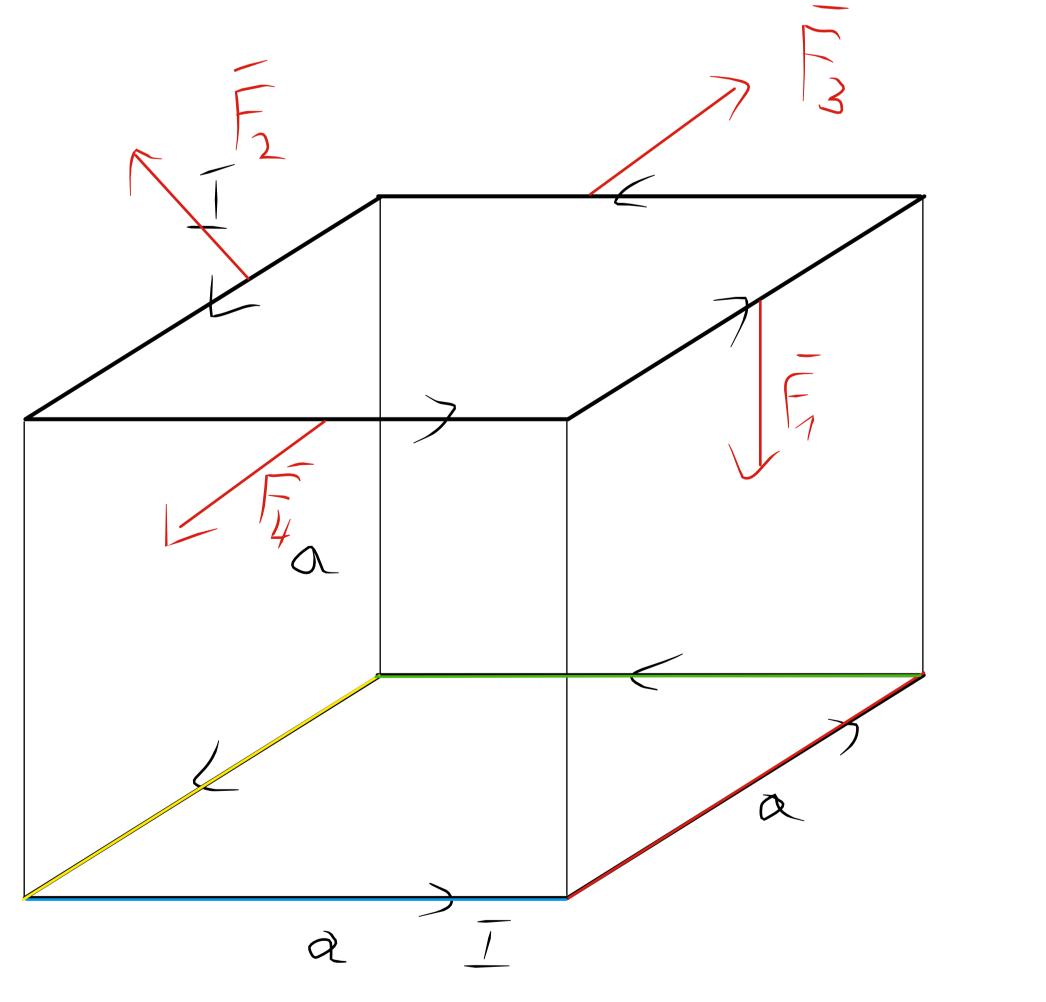
$$R = 1$$

$$R = 1$$

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$$\frac{d}{d} = \frac{d}{d} = \frac{d$$

$$\frac{d\overline{F} = \overline{I} \cdot dy \times \overline{S}}{d\overline{I}} = \frac{1}{1} \frac{dy}{dx} \frac{S(y)}{dx} \frac{\partial x}{\partial y} \frac{\partial x}{\partial y} \frac{\partial x}{\partial y} \frac{\partial x}{\partial x} + \frac{1}{1} \frac{\partial x}{\partial y} \frac{\partial x}{\partial y} \frac{\partial x}{\partial x} + \frac{1}{1} \frac{\partial x}{\partial y} \frac{\partial x}{\partial y} \frac{\partial x}{\partial x} + \frac{1}{1} \frac{\partial x}{\partial y} \frac{\partial x}{\partial y} \frac{\partial x}{\partial x} = \frac{1}{1} \frac{\partial x}{\partial y} \frac{\partial x}{\partial y} \frac{\partial x}{\partial y} \frac{\partial x}{\partial y} = \frac{1}{1} \frac{\partial x}{\partial y} \frac{\partial x}$$



$$\vec{F}_{c} = \frac{\mu_{0}\vec{I}}{2 \cdot \vec{J}} \begin{bmatrix} 0 & \frac{7 - \sqrt{3}}{2} & \frac{\sqrt{3} - \sqrt{12}}{2} \\ 0 & \frac{7 - \sqrt{3}}{2} & \frac{\sqrt{3} - \sqrt{12}}{2} \\ -\frac{\mu_{0}\vec{I}}{2 \cdot \vec{J}} & \frac{7 + \sqrt{3}}{2} & \frac{\sqrt{3} - \sqrt{12}}{2} \\ -\frac{\mu_{0}\vec{I}}{2 \cdot \vec{J}} & 0 & \frac{\sqrt{3} - \sqrt{12}}{2} \\ -\frac{\mu_{0}\vec{I}}{2 \cdot \vec{J}} & \frac{7 - \sqrt{3}}{2} & \frac{\sqrt{3} - \sqrt{12}}{2} \\ -\frac{\mu_{0}\vec{I}}{2 \cdot \vec{J}} & \frac{7 - \sqrt{3}}{2} & 0 & \frac{\sqrt{3} - \sqrt{12}}{2} \\ -\frac{\mu_{0}\vec{I}}{2 \cdot \vec{J}} & \frac{7 - \sqrt{3}}{2} & 0 & \frac{\sqrt{3} - \sqrt{12}}{2} \\ -\frac{\mu_{0}\vec{I}}{2 \cdot \vec{J}} & \frac{7 - \sqrt{3}}{2} & 0 & \frac{\sqrt{3} - \sqrt{12}}{2} \\ -\frac{\mu_{0}\vec{I}}{2 \cdot \vec{J}} & \frac{7 - \sqrt{3}}{2} & 0 & \frac{\sqrt{3} - \sqrt{12}}{2} \\ -\frac{\mu_{0}\vec{I}}{2 \cdot \vec{J}} & \frac{7 - \sqrt{3}}{2} & 0 & \frac{\sqrt{3} - \sqrt{12}}{2} \\ -\frac{\mu_{0}\vec{I}}{2 \cdot \vec{J}} & \frac{7 - \sqrt{3}}{2} & 0 & \frac{\sqrt{3} - \sqrt{12}}{2} \\ -\frac{\mu_{0}\vec{I}}{2 \cdot \vec{J}} & \frac{7 - \sqrt{3}}{2} & 0 & \frac{\sqrt{3} - \sqrt{12}}{2} \\ -\frac{\mu_{0}\vec{I}}{2 \cdot \vec{J}} & \frac{7 - \sqrt{3}}{2} & 0 & \frac{\sqrt{3} - \sqrt{12}}{2} \\ -\frac{\mu_{0}\vec{I}}{2 \cdot \vec{J}} & \frac{7 - \sqrt{3}}{2} & 0 & \frac{\sqrt{3} - \sqrt{12}}{2} \\ -\frac{\mu_{0}\vec{I}}{2 \cdot \vec{J}} & \frac{7 - \sqrt{3}}{2} & 0 & \frac{\sqrt{3} - \sqrt{12}}{2} \\ -\frac{\mu_{0}\vec{I}}{2 \cdot \vec{J}} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} \\ -\frac{\mu_{0}\vec{J}}{2 \cdot \vec{J}} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} \\ -\frac{\mu_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} \\ -\frac{\mu_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} \\ -\frac{\mu_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} \\ -\frac{\mu_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} \\ -\frac{\mu_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} \\ -\frac{\mu_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} \\ -\frac{\mu_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2} & \frac{\pi_{0}\vec{J}}{2}$$

Sily Jewlogoca na prostopolite belo beda
sie somnowazyć z rayi symetrii:
predwy h zwrotów prodów.

$$F_4 + F_3 = 0$$

$$F_1(a) = \frac{M_0 I^2}{2510} - \frac{a^2}{a^2 + a^2 + a} - \frac{e}{2} = \frac{M_0 I^2}{251} (-12+7) \hat{c}_2$$

$$F_2(a) = \frac{M_0 I^2}{2.51} \left(\sqrt{2a^2 + a^2 - \sqrt{2}a} \right) \left[0, -\frac{\sqrt{2}}{2}; \frac{\sqrt{2}}{2} \right] =$$

$$= \frac{M_0 I^2}{2.57} - \frac{\sqrt{3} - \sqrt{2}}{2} \left(\sqrt{3} - 3\sqrt{2} + 2 \right) e_2$$

$$= \frac{M_0 I^2}{2.57} \left(\sqrt{3} - 3\sqrt{2} + 2 \right) e_2$$