$$I = \frac{\Delta q}{\Delta t} = 3 \Delta q = I\Delta t \quad \text{no sourcey One } I = \frac{U}{R}$$

$$U = U_0 + at^2$$

$$\Delta q = I\Delta t = \int I dt = \int \frac{U}{R} dt = \int \frac{U_0 + at^2}{R} dt = \int \frac{U_0}{R} + \frac{at^2}{R} dt = \int \frac{U}{R} dt = \int \frac{U}{R}$$

$$\vec{J} = dE$$

$$\vec{J} = \vec{J} = \vec{J}$$

$$\vec{J} = \vec{J}$$

$$\vec{J$$

$$R \times 6 = R + \frac{R \times 6 \cdot R}{R \times 6 + R} \Rightarrow R \times 6 (R \times 6 + R) = R R \times 6 + R^2 + R \times 6$$

$$R \times 6^2 + R \times 6 + R^2 = 0$$

$$R \times 6^2 + R \times 6 + R^2 = 0$$

$$|2x| = \frac{R \pm \sqrt{5}}{2}$$
Mani rupken nonoxumenomoni noperu

9 The D=IR $I=\frac{2}{2}$ = $D-\frac{2^{2}}{2}$ and $D=\frac{2}{2}$

(4)
$$I = IR$$
 $I = \frac{\epsilon}{R+r} = P = \frac{\epsilon^2}{(R+r)^2}R = P$
 $\epsilon = \frac{\epsilon^2}{(R+r)^2}R = \epsilon^2(R+r)^2 = \epsilon^2(R+r)^2 = 0$

$$P = x/r^2 = C = \frac{r^2}{\alpha} = \frac{1}{p}$$

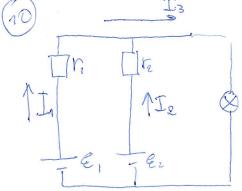
$$P = x/r^2 = C = \frac{r^2}{\alpha} = \frac{1}{p}$$

$$R + r = 2R = 1$$

$$R = r$$

of) Ed=J pasobolin upobod na nonerun commandoci repobolinamento. $dr *z \pi r = dS$ more repos beto unomado paben cymne mondo repos bee unerum b emdenthocum $I = \int_{-\infty}^{\infty} J(r)dS = \int_{-\infty}^{\infty} EddS = \int_{-\infty}^{\infty} E \int_{-\infty}^{\infty} dS = \int_{-\infty}^{\infty} J(r)dS = \int_{-\infty}^{\infty} EddS = \int_{-\infty}^{\infty} J(r)dS = \int_{-\infty}^{\infty} EddS = \int_{-\infty}^{\infty} J(r)dS = \int_{-\infty}^{\infty} EddS = \int_{-\infty}^{\infty} J(r)dS =$

$$\frac{2\pi E}{\sigma} \int_{0}^{\infty} r^{5} dr = \frac{S^{2}}{2\pi \alpha} E \implies E = \frac{2\pi \alpha I}{S^{2}} \implies \alpha) \frac{R}{e} = \frac{1}{1} = \frac{1}{1} = \frac{2\pi \alpha}{S^{2}}$$



$$R_{1} = 1 \Omega$$

$$R_{2} = 2 \Omega$$

$$R_{3} R_{3} = 5 \Omega$$

$$E_{1} = 5 B$$

$$E_{2} = 10 B$$

$$J_{1} = J_{1} = J_{2}$$

$$J_{2} = J_{2}$$

$$J_{2} = J_{1} + J_{2} = J_{3}$$

$$J_{3} = J_{1} + J_{2}$$

$$J_{3} = J_{2} + J_{2}$$

$$J_{4$$

$$\begin{cases} \pm_{1} + \pm_{2} = J_{3} \\ \epsilon_{1} - \epsilon_{2} = J_{1} + \Gamma_{1} - J_{2} = \Gamma_{2} \end{cases}$$

$$\begin{cases} \epsilon_{1} = \sum_{k=1}^{\infty} J_{k} + \sum_{k=1}^{\infty} J_{k} = J_{2} = J_{2}$$

$$|J_{1}+J_{2}=J_{3}|$$

$$|E_{1}-E_{2}=J_{1}r_{1}-J_{2}r_{2}|$$

$$|E_{2}=J_{2}r_{2}+R_{3}(J_{1}+J_{2})=R_{3}J_{1}+(R_{3}+r_{2})J_{2}$$

$$|J_{1}=\underbrace{E_{2}-(R_{3}+r_{3})J_{2}}_{R_{3}}$$

$$\begin{cases} I_{1}+I_{2}=I_{3} \\ E_{1}-E_{2}=\frac{E_{2}+F_{2}+F_{2}}{P_{3}}I_{1}-I_{2}I_{2} =) & \text{$\ell_{1}R_{3}-\ell_{2}R_{3}=\ell_{2}I_{1}-(P_{3}+F_{2})I_{2}N_{1}-J_{2}I_{2}R_{3}} \\ I_{1}=\frac{E_{2}(P_{3}+F_{2})I_{2}}{P_{3}} & \frac{E_{1}-\ell_{2}(P_{3}+F_{1})}{F_{2}R_{3}+(P_{3}+F_{2})F_{1}} = I_{2}=) & \text{f_{2}} \underbrace{\ell_{2}(P_{3}+F_{1})-\ell_{1}}_{F_{2}R_{3}+(P_{3}+F_{2})F_{1}} \end{cases}$$