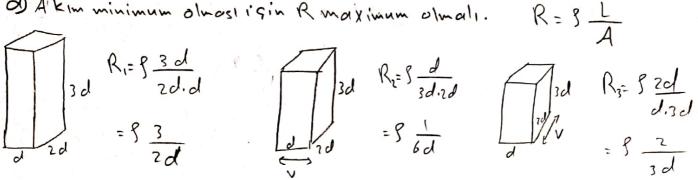


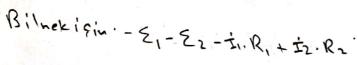
$$R_{z} = S \frac{d}{3d.2d}$$

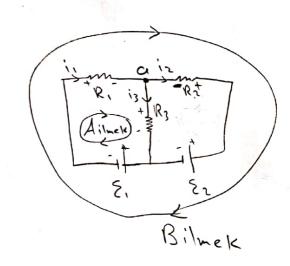
$$= S \frac{1}{6d}$$



$$\frac{R_{i} \max t_{iv}}{R_{i}} = \frac{V}{R_{i}} = \frac{V}{\frac{3}{3}}$$

b) Ailmekipin: - E, - I.R, - I3. R3 = 0 => E, + I, R, + I3. R3 = 0 => 1 7+13.4==12V





=> 29 I, = -45 => I, = $\frac{-45}{29} \simeq -1.55 \text{A}$ /2) $\Delta \alpha : -7(-1.55) + 8 I_2 = 21 \vee$

DR geren akım: [I=1,55 A], saatin ters yönünde. (=) I2 = 1,27 A

3 R3 geren akin: [] =0,28 A, yakarı

$$\frac{2}{300} \vec{F}_{B} = Q(\vec{J} \times \vec{B}) = (2c) \left[(300\hat{i} + 4100\hat{j}) \times (-3\hat{i} + 44\hat{j}) \right] \\
= (2) \left| \frac{\hat{i}}{300} + \frac{\hat{k}}{400} + \frac{\hat{k}}{600} \right| = 2 \left[1200\hat{k} - (-1200\hat{k}) \right] = 2(2400\hat{k})$$

$$= \sqrt{F_{B}} = (41800\hat{k}) N$$

b)
$$Y = \frac{m|\vec{x}|}{q|\vec{B}|} = \frac{(1x10^{3} \times q).\sqrt{(1x1)^{2}}}{2.\sqrt{(1x10^{3} \times q).\sqrt{(1x1)^{2}}}} = \frac{(1x10^{3})x(500-15)}{(2)x(5T)} = \frac{(0,05m)}{2}$$

$$F_{1-3} = \frac{2k \cdot 2 \cdot 5}{2 \cdot 0.4} = 25k$$
 çeker

$$F_{5-3} = \frac{2k \cdot 2 \cdot 5}{2 \cdot 0.4} = 25 k \text{ Scker}$$

$$\frac{5}{25k} \leftarrow \frac{3}{3}$$

$$-5 + \frac{3}{4}$$

$$-7 + \frac{3}{4}$$

MALEKALISMAIL /20253833 / 16

4) a)
$$= \frac{-\Delta \Phi}{\Delta t} = -Bl \frac{dx}{dt} = -Blv$$

b) sagel kuralı fle & Akım yukarı yöndedir

$$C) I = \frac{E}{R} = \frac{B.\ell. V}{R} = \frac{0.8.0, 5.7, 5}{R} = 2 A$$

