1)

1)

1)

1)

1 = 
$$\frac{Q}{H}$$
 |  $I = \frac{dq}{dt} = TT$  Amperies

1)

1)

1 =  $\frac{Q}{H}$  |  $I = \frac{dq}{dt} = TT$  Amperies

2)

1)

1 =  $\frac{Q}{H}$  |  $I = \frac{dq}{dt} = TT$  Amperies

2)

1 =  $\frac{1}{S} = \frac{1}{TTR^2} = \frac{1}{TR^2} = \frac{1}{TR^2} = \frac{1}{2000 \text{ d/m}} = \frac{6,25 \cdot 10^{14} \text{ d/m}}{10000 \text{ d/m}} = \frac{1000 \text{ d/m}}{10000 \text{ d/m}} = \frac{10000 \text{ d/m}}{10000 \text{ d/m}} = \frac{1000 \text{ d/m}}{100000 \text{ d/m}} = \frac{1000 \text{ d/m}}{10000 \text{ d/m}} = \frac{10000 \text{ d/m}}{100000 \text{ d/m}} = \frac{100000 \text{ d/m}}{100000 \text{ d/m}} = \frac{100000 \text{ d/m}}{100000 \text$ 

 $R_2 = P_2 \frac{o_{125}}{17R^2} = Z \cdot 10^{-8} \frac{o_{125}}{17(0,0004)^2} = 0.16 S2$ 

$$I = \frac{V}{R} = \frac{4}{0.148} = 8.3 \text{ A}$$

$$c) J = \frac{I}{S} = \frac{8.3}{\pi (0.000)^2} = 2.65.0^8 \text{ A/m}^2$$

$$d) \xrightarrow{P} = \frac{I}{S} = \frac{1}{\pi (0.000)^2}$$

$$E_1 = P = \frac{1}{I}$$

$$E_2 = P_2 J = 2.00^{-8} \cdot 2.65.10^8 = 513 \text{ Vm}$$

$$E_2 = P_2 J = 2.00^{-8} \cdot 2.65.10^8 = 513 \text{ Vm}$$

$$I = 20 \text{ A}$$

$$a) Siel cable transports  $I = 10 \text{ (max I)}$ 

$$P = \frac{1}{17.10^{-8}} \text{ Jz m}$$

$$I = \frac{1}{17.10^{-8}} \text{ Images of the position of the po$$$$

$$P = I^{2}R$$
  $P = 60 W$   
 $V = 220V$   
 $d = 0.01 mm = 00001$   
 $T = 19.10^{6} S2^{-1}m^{-1}$ 

a) 
$$R? I?$$

$$P = IV \quad I = \frac{V}{R}$$

$$P = I^{2}R = \frac{V^{2}}{R} = IV$$

$$60 = \frac{220^{2}}{R}$$

$$R = \frac{220^{2}}{60} = 80752$$

$$\Rightarrow I = \frac{V}{R} = \frac{220}{807} = 0.27 A$$

$$R = P = \frac{1}{S} \cdot l = RS = 0 \cdot RS = 1/2 \text{ m}$$

$$S = \Pi R^{L}$$

$$V = \frac{1}{2} = 0,0005$$
6)
$$P = IV$$

$$R = R + R = 60 \text{ W}$$

$$R_{1} = 3^{2} \cdot R_{1}$$

$$R_{2} = 8 \cdot R_{2}$$

$$R_{3} = 60 = 1 \cdot 20$$

$$I = 3 \text{ A}$$

$$Lod V = 20 \cdot R_{1}$$

$$R_{2} = 21^{2} R_{2}$$

$$R_{3} = 8 \cdot R_{2}$$

$$R_{4} = 21 \cdot 2\Omega$$

$$R_{5} = 8 \cdot R_{2}$$

$$R_{1} = 21 \cdot 2\Omega$$

$$R_{2} = 20^{2} = 181 \cdot R_{3}$$

$$R_{3} = 20 \cdot R_{4}$$

$$R_{4} = 20^{2} = 181 \cdot R_{4}$$

$$R_{5} = 20^{2} = 181 \cdot R_{5}$$

$$R_{1} = 20^{2} = 181 \cdot R_{5}$$

$$R_{2} = 20^{2} = 181 \cdot R_{5}$$

$$R_{3} = 20^{2} = 181 \cdot R_{5}$$

$$R_{4} = 20^{2} = 181 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{1} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{2} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{3} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{4} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_{5} = 1 \cdot R_{5}$$

$$R_{5} = 1 \cdot R_$$

Scanned by CamScanner

$$\begin{array}{c} P3 \\ \hline 3 \\ \hline \\ R2 \\ \hline \\ R2 \\ \hline \\ R3 = 300 \, \text{cm} \end{array}$$

$$R_1 = 50 \text{ cm} = 0.5 \text{ m}$$
  $Q_1 = 5 \text{ nC}$   
 $R_2 = 100 \text{ cm} = 1 \text{ m}$   $Q_2 = 10 \text{ nC}$ 

$$W = -\Delta U = -(U_3 - U_4) = (U_4 - U_3)$$

a) 
$$C_1 = \frac{Q}{V}$$
  
 $Q = 2.10^{-6} \cdot 1000 = 2.10^{-8}C$ 

$$C_{23} = \frac{C_2 \cdot C_3}{C_2 + C_3} \Rightarrow C_{23} = \frac{3 \cdot 10^{-6} \cdot 6 \cdot 10^{-6}}{3 \cdot 10^{-6} + 6 \cdot 10^{-6}} = 2 \cdot 10^{-6}$$

$$C_7 = C_4 + C_8 = 2 \cdot 10^{-6} + 2 \cdot 10^{-6} = 4 \cdot 10^{-6} = 6$$

$$(V_A - V_B) = \frac{Q_7}{C_8} = \frac{2 \cdot 10^{-3}}{4 \cdot 10^{-6}} = 500 \text{ V}$$