(SE 3100

Lab 1

Daniel Delgado Acosta 2-6-22

$$R_1 = 100 \Omega$$
  $R_2 = 500 \Omega$ 

$$R_s = R_1 + R_2 + \dots - T$$

$$R_1$$

$$R_2$$

$$R_{+o+} = 100 + 500 = 600 \Omega$$

$$\frac{1}{R_{p}} = \frac{1}{R_{1}} + \frac{1}{R_{2}} + \dots + \frac{1}{R_{1}} + \dots + \frac{1}{R_{1}} + \dots + \frac{1}{R_{2}} + \dots + \frac{1}{R_{2}}$$

$$R_{+o+} = \left(\frac{1}{100} + \frac{1}{500}\right)^{-1} = 83.3 \Omega$$

Figure 1:  

$$5V + I = 7$$
  
 $V=IR = Y = 7$   
 $V=IR = Y = 7$ 

$$I = \frac{S}{100} = 0.05 A$$

Figure 2: 
$$5V + I = 5V$$
  
 $I = V$   
 $I = \frac{5}{500} = 0.01 \text{ A}$ 

Figure 3: 
$$\frac{R_1}{T}$$
  $V = 5V$   
 $R_1 = 100 \Omega$   
 $R_2 = 500 \Omega$   
 $R_3 = R_1 + R_2 + ...$   
 $R_4 = 100 + 500 = 600 \Omega$ 

$$T = \frac{5}{600} = 0.008\overline{3} A$$

Figure 4: 
$$+ \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1$$

$$R_{p} = (R_{1} + R_{2} + ...)^{-1}$$

$$= \frac{5}{83.\overline{3}} = 0.06 A$$