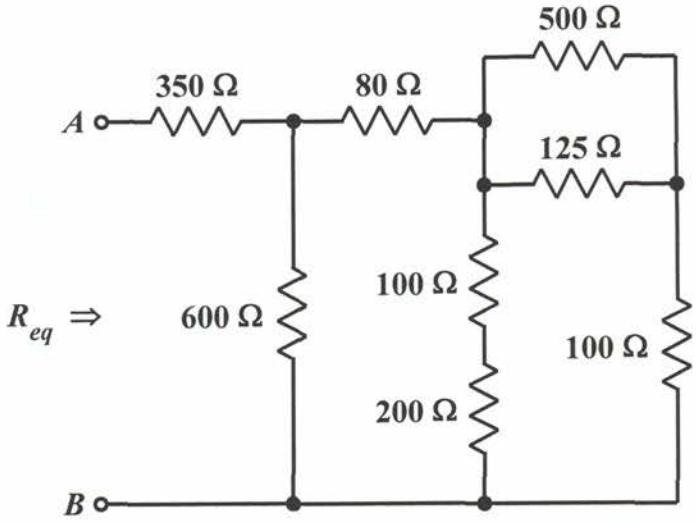
EE 2240

Problem #03

Use a sequence of series and parallel combinations to reduce the circuit shown below to a single equivalent resistance, R_{eq}, with respect to terminals A and B.



$500\Omega \| 125\Omega = 100\Omega$

$100\Omega + 100\Omega = 200\Omega$

$100\Omega + 200\Omega = 300\Omega$

$300\Omega \| 200\Omega = 120\Omega$

$80\Omega + 120\Omega = 200\Omega$

$600\Omega \| 200\Omega = 150\Omega$

$R_{eq} = 350\Omega + 150\Omega = 500\Omega$