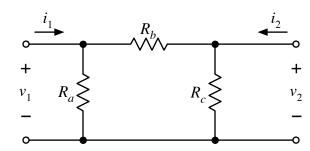
Name____

For the " π - network" shown at right, determine the values for R_a , R_b , and R_c so that the corresponding two-port parameters will be:

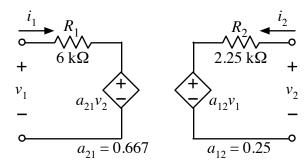


 $R_1 = 6 \text{ k}\Omega$,

 $a_{21} = 0.667$

 $R_2 = 2.25 \text{ k}\Omega$, and

 $a_{12} = 0.25$.



Note: You will need to "work backwards". Use the method described in the notes to express R_1 , a_{21} , etc in terms of R_a , R_b , and R_c . Then using the relationships, determine values for the three resistors in the original circuit.