PHYS 202 Combining Resistors Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

When resistors (*R1*, *R2*, *R3*) are connected in series the equivalent resistance (*Rs*) is given by,



When resistors (*R1*, *R2*, *R3*) are connected in parallel the equivalent resistance (*Rp*) is given by,



1. Give an explanation for the first equation above.

2. Find the equivalent [resistance](javascript:parent.xlinkeyword('u0028')) between points *A* and *B* for the resistor network shown below. (Ans: 4.67 ohm)

