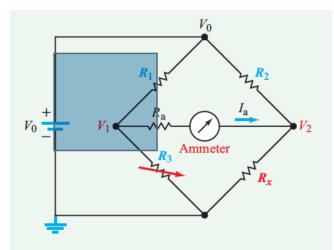
## Concept Question 2-13: What is the balanced condition in a Wheatstone bridge?



**Figure 2-36:** Wheatstone-bridge circuit containing an adjustable variable resistor  $R_3$  and an unknown resistor  $R_x$ . When  $R_3$  is adjusted to make  $I_a = 0$ ,  $R_x$  is determined from  $R_x = (R_2/R_1)R_3$ .

Balanced condition occurs when  $I_a = 0$ .