

AP Physics C Lab #17 — Wheatstone Bridge

Name _____

Grade _____

Objectives:

- 1) Derive an expression for R_4 in terms of R_1 , R_2 , and R_3 when the ammeter reads zero.
- 2) Use the slidewire Wheatstone Bridge to measure the ratio of R_1/R_2 and measure R_3 to predict a value of R_4 .
- 3) Compare the predicted value for R_4 to the measured value.

