

### Practice Problem Set 3

Not to be turned in for credit!

#### Question 1 (1 point)

What is the difference between adding two resistors in series and adding them in parallel?

#### Question 2 (3 points)

The resistivity of silver is  $1.59 \times 10^{-8} \Omega \cdot \text{m}$ . If a wire of silver is cylindrically shaped with a radius of 0.52 mm and a length of 23 cm, what total resistance does it have? If it attached to the two terminals of a 1.5V battery, how much power will it draw?

#### Question 3 (3 points)

See Chapter 28, Question 19

#### Question 4 (3 points)

See Chapter 28, Question 23