Which direction does current flow in this circuit?

A: Clockwise
B: Counterclockwise
C: Not enough information given
Reminder: Exam 2 next Thursday
- 20 multiple choice questions
- Covers all material so far with an emphasis on material since exam 1
- Room assignments same (on website and announced in tutorial)
- Sample exam problems posted Monday
Based on the experimental data, the power dissipated as heat in the wire depends on

A) Only I
B) Only R
C) R and I
D) Neither R nor I
Based on the experiment, which material has the larger resistivity?

A) Iron  
B) Copper  
C) They are equal  
D) Can’t tell from this experiment
A 1Ω resistor is placed in parallel with a 10,000 Ω resistor as shown.

The total, equivalent resistance of these two resistors in parallel is...

A) a little less than 1 Ω
B) a little more than 1 Ω.
C) about 5000 Ω
D) a little less than 10,000 Ω
E) a little more than 10,000 Ω
Current flows through a light bulb.

Suppose an ideal wire is connected across the bulb as shown. When this wire is connected...

A) All the current continues to flow through the bulb
B) Half the current flows through the bulb, half through the wire
C) All the current flows through the wire.
R1=6 \, \Omega, \, R2=12 \, \Omega.

Compare the current flowing past points A and B

A) \( I_A = I_B \)
B) \( I_A = 2 \, I_B \)
C) \( I_A = 0.5 \, I_B \)
D) \( I_A = 3 \, I_B \)
E) \( I_A = \frac{1}{3} \, I_B \)
R1=10 Ω, R2=5 Ω. What's the current through the 10 Ω resistor?

A) 1 A  
B) 2 A  
C) 3 A  
D) 5 A  
E) 6 A
R1=10 Ω, R2=5 Ω. What's the voltage drop across the 10 Ω resistor, i.e. ΔV(AB)?

A: 30 V  
B: 20 V  
C: 15 V  
D: 10 V  
E: 0 V