Physics 161 Quiz – Magnetic Flux and Transformers

Name	
Lab Time	

1. [2 PTS] Draw and label a picture of a 10:1 transformer.

2. [3 PTS] The transformer above is hooked to a 9 volt battery. What are the possible output voltages?

3. [3 PTS] The transformer above is hooked to a 60 Hz 10 V rms function generator. What are the possible output voltages?

4. [2 PTS] The primary coil of a transformer draws 4.0 A rms current when plugged into a 120 V outlet. The secondary voltage is 40 V. What current does the secondary coil of the transformer deliver to the load?