

## QZ-EE-002 Transformers and Resistivity

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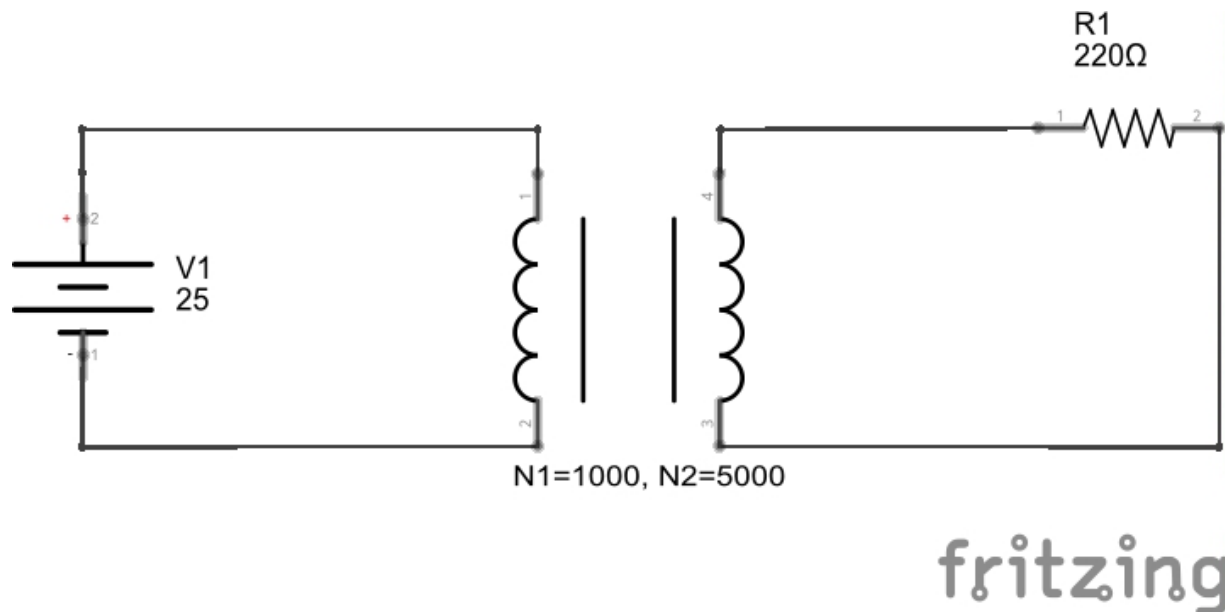
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\* Required

1. Name \*

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### DC Transformer



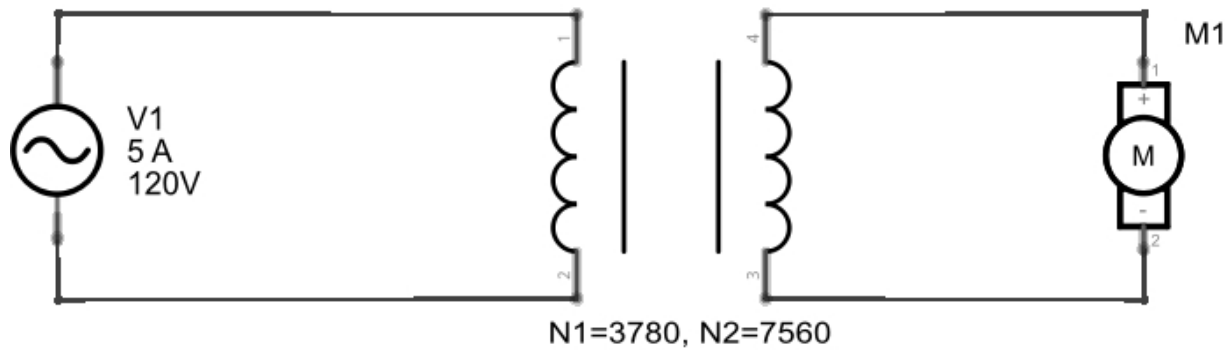
2. Given the above information, what is the voltage over R1? (2 points, round to nearest .1 V)

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3. Given the above information what is the current over R1? (2 points, round to the nearest .1 A)

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### Untitled Section



fritzing

4. Given the above information, what is the voltage over M1? (2 points, round to nearest .1 V)

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5. Given the above information what is the current over M1? (2 points, round to the nearest .1 A)

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## Resistance and Resistivity

6. You are provided with a length of copper wire. You are told the wire is 300 miles in length. You grab a set of calipers, and measure the diameter of the wire to be 2 inches. What is the total resistance of the length of wire? (2 points, round to the nearest .001 ohms)

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