

Homework on Motors and Generators

1. *[2 points; 1 point each] Please put #2 on a separate sheet*
 - a) In 50 words or less, explain how an electric generator works. Include at least one sketch and one relevant equation. Include an answer to this question: As the electrical power supplied by the generator increases, what has to happen at the “input” end of the generator (where mechanical work is done)? Explain.
 - b) In 50 words or less, explain how an electric motor works. Include at least one sketch and one relevant equation. Include an answer to this question: Why must the direction of flow of current (through the conducting loop in the motor) be reversed once each cycle?