

Automotive Technology 7<sup>th</sup> Edition  
Chapter 87: Introduction to Electric and Hybrid Electric Vehicles  
Short Answer Quiz

Name:

Date:

1. What are the primary differences in functionality between a micro hybrid and a full hybrid vehicle?
2. Describe the role and functionality of the third motor in a three-motor hybrid system.
3. What are the key factors that can affect the driving range of an electric vehicle (EV)?
4. Explain the concept of one-pedal driving in the context of electric vehicles.
5. What are the advantages and disadvantages of owning an electric vehicle compared to traditional internal combustion engine vehicles?

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6. How does the initial cost of an electric vehicle compare to that of a similar internal combustion engine vehicle, and what factors contribute to this cost difference?

7. Discuss the strategies that can be employed to increase the range of an electric vehicle.

8. What are the typical home electrical needs for charging an electric vehicle, and how might this affect a homeowner's electric service?

9. How does the efficiency of an electric motor compare to that of an internal combustion engine, and what implications does this have for vehicle operation?

10. What routine maintenance is required for an electric vehicle, and how does this differ from the maintenance required for a conventional vehicle?