



4. The text uses distance traveled and change in elevation to discuss the idea of a state function. Explain which of these is a state function and which is not.

5. You place hot metal into a beaker of cold water. Answer the following.

a. Eventually what is true about the temperature of the metal compared to that of the water? Explain why this is true.

b. Label this process as endothermic or exothermic if we consider the system to be  
i. the metal. Explain.

ii. the water. Explain.