- 11. [6 points] Suppose that C = h(T) is the daily cost, in dollars, to heat a certain house if the average outside temperature that day is T degrees Fahrenheit (°F). The function h(T) is invertible and differentiable.
 - a. [3 points] Complete the following sentence to give a practical interpretation of h'(40) = -0.1. If one day the average outside temperature is 40°F and the next day it is 37°F, ... Solution: "then the daily cost to heat the house will have increased by about 0.3 dollars."
 - **b**. [3 points] Complete the following sentence to give a practical interpretation of $(h^{-1})'(3.6) = -8$.

If the cost to heat the house increased from 3.60 on one day to 3.70 the next day, ...

Solution: "then the temperature must have decreased by approximately 0.8°F."