3. (continued)

d. [4 points] Give a practical interpretation of the formula

$$g'(3.5) = -3500$$

that begins with

"If Eddie and Laura decrease the price of the soup from \$3.50 per liter to \$3.40 per liter \dots "

- 4. [6 points] A car, initially going 100 feet per second, brakes at a constant rate (constant negative acceleration), coming to a stop in 8 seconds. Let t be the time in seconds after the car started to brake.
 - **a**. [3 points] Sketch a graph of the velocity of the car from t = 0 to t = 8, being sure to include labels.

b. [3 points] Exactly how far does the car travel? Make it clear how you obtained your answer.