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
...”

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.