3. (continued)
d. [4 points] Give a practical interpretation of the formula

$$
g^{\prime}(3.5)=-3500
$$

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.

