7. [9 points] A pizza delivery driver works for a pizzeria on Main Street, which is a long, straight road. The driver tracks her location with her phone while driving a route on Main Street. Let \( D(t) \) be her distance from her pizzeria, in miles, at time \( t \) hours after noon. Below is a portion of the graph of \( D'(t) \), the derivative of \( D(t) \).

a. [2 points] On which of the following intervals of \( t \) is the driver getting closer to her pizzeria for the entire interval? Give your answer as a list of one or more intervals, or write none.

\[
\begin{align*}
(0.1, 0.2) & \quad (0.2, 0.3) & \quad (0.6, 0.8) & \quad (0.8, 1)
\end{align*}
\]

b. [3 points] The speed limit in the driver’s hometown is 40 miles per hour. How many different times does she begin to drive over the speed limit?

c. [2 points] At which of the following times is the driver farthest from her pizzeria? Write the one best answer.

\[
\begin{align*}
t = 0.1 & \quad t = 0.35 & \quad t = 0.5 & \quad t = 0.6 & \quad t = 0.7
\end{align*}
\]

d. [2 points] Write the number of the the sentence below that best describes the driver’s behavior on the interval \( 0.2 \leq t \leq 0.5 \).

1. The driver keeps returning to the pizzeria to pick up more pizza.
2. The driver is driving on a highway without any traffic.
3. The driver stops at a series of red lights.
4. The driver is driving in circles, looking for a place to park.