





In the Daytona 500 auto race, a Ford Thunderbird and a Mercedes Benz are moving side by side down a straight-away at 252 km/h. The driver of the Thunderbird realizes he must make a pit stop, and he smoothly slows to a stop over a distance of 250 m. He spends 5.00 s in the pit and then accelerates out, reaching his previous speed in 9.14 s. At this point, how far has the Thunderbird fallen behind the Mercedes Benz, which has continued at a constant speed?



## **Kinematics questions ANS.notebook**

