Webwork Section 5.3 #22

Book Problem 59

The velocity of a car was read from its speedometer at 10-second intervals and recorded in the table. Use the midpoint rule to estimate the distance traveled by the car.

t(s)	0 10	20	30	40	50	60	70	80	90	100
v(mi/h)	0 25	49	53	58	64	67	50	54	46	37

$$\Delta N = \frac{100-0}{5} = 20 \sec \left(\frac{10}{30} \right) = \frac{30}{3600} \ln \left(\frac{30}{3600} \right) = \frac{20}{3600} \ln \left(\frac{30}{3600} \right) + \frac{50}{40} = \frac{70}{60} = \frac{90}{80} = \frac{100}{3600} = \frac{100}{300} = \frac{100}{300} = \frac{100}{300} = \frac{1000}{300} = \frac{100}{300} = \frac{100}{300} = \frac{100}{300} = \frac{100}{300} =$$