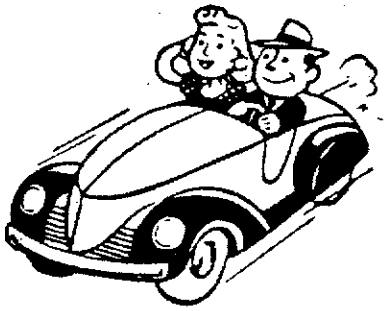

CALCULUS: MINI PROJECT

1. Take a ride with a friend or a relative.
2. Write down the odometer (miles) reading before you start
3. Write down your velocity (from the speedometer mph) and time elapsed at least 9 times during the ride. For example if you go for a 20 minute $\left(\frac{1}{3}\,hr\right)$ride, you could record your velocity every 2 minutes $\left(\frac{1}{30}\,hr\right)$.
4. Write down the odometer (miles) reading at the end of your ride.
5. Plot points (elapsed time, velocity) on a coordinate axis
6. Be sure to label the axis
7. Connect the points
8. Find the area under the graph using triangles, trapezoids, or rectangles
9. Find the difference in the beginning and ending odometer readings.
10. Compare your answers of # 8 and #9 above. Is there anything significant or interesting?