Consider driving down a road.

At time t position given parametrically

420

Can you calculate how far you have driven down road in time, T.

$$= \int_{0}^{16t^{2} + 4 - 8t^{2} + 4t^{4}} dt$$

$$= \int_{0}^{16t^{2} + 4 - 8t^{2} + 4t^{4}} dt$$

$$= \int_{0}^{T} \frac{4(t^{2}+1)^{2}}{(t^{2}+1)^{2}} dt$$

$$= \int_{0}^{T} 2 \frac{1}{t^{2}+1} dt$$

$$= 2 + an'(t) - 2 + an'(t)$$

$$T = tan(\frac{L}{2})$$

$$X = \frac{2}{4a_n(2)+1}$$

$$y = \frac{2 \tan(2)}{\tan^2(2)+1}$$

$$\frac{\chi(t)}{2} - 1 = \frac{2}{5c^{2}(t)} - 1$$

$$= 2\cos(\frac{L}{2}) - \cos^{2}\frac{L}{2} - \sin^{2}\frac{L}{2}$$

$$= \cos(\frac{L}{2}) - \sin(\frac{L}{2})$$

$$= \cos(\frac{L}{2})$$

$$= cos(L)$$

$$\frac{y(t)}{2} + cn(\frac{t}{2}) = \frac{2 \sin \frac{4z}{\cos \frac{4z}{2}}}{\cos \frac{4z}{2}}$$

$$tan^{2}(\frac{t}{2})+1 = \frac{2 \cos \frac{4z}{2}}{\sec \left(\frac{t}{2}\right)}$$