Particle Man moves along a straight line with velocity

\[ v(t) = \sin \omega t \cos^2 \omega t \]

Find its position at time, t, if \( s(0)=0 \).

This problem is brought to you by Prof. Maegan Bos.

Submit your solutions to Prof. Choong-Soo Lee. You may submit either a hard copy or an electronic copy via Dropbox on the POW website.


Good Luck!!