

Answer on question #51850, Physics, Mechanics — Kinematics — Dynamics

Question If s is distance and t is time, what must be the dimensions of a and b in the equation $s = a \sin(bt)$

$$[a] = [L]^{-1}, [b] = [L]^{-1}$$

$$[a] = [T]^{-1}, [b] = [L]$$

$$[a] = [L], [b] = [T]^{-1}$$

$$[a] = [L]^2, [b] = [T]^{-2}$$

Solution Answer is $[a] = [L], [b] = [T]^{-1}$.

<http://www.AssignmentExpert.com/>