

Answer on question #51543, Physics, Other

Question 5 Which of the following equations is not dimensionally consistent? the symbols have their usual meaning. A $s = ut - gt^2$ B $Ft = mv - m_0$ C $-kx + F_0 \sin \omega t = ma$ D $w^2 = w_0^2 + \alpha \theta$

Solution Equation $Ft = mv - m_0$ is not dimensionally consistent, because m_0 has dimension of mass, while other terms in this equation have dimension of force. Answer is B.

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