Question#18728

a body of mass 5kg is displaced through a distance of 2m with uniform acceleration of 3ms-2 calculate work done

Solution:

The done work is:

A = FS, were F - force due to the body, S - displacement

According to the Second Newton's Law:

F = ma, were m - mass, a - acceleration

A = maS = 5 * 3 * 2 = 30 J

Answer: 30 J