

20 The equation for kinetic energy E_K can be derived using the equations of motion.

Four equations relating to motion are listed.

1 $W = Fs$

2 $F = ma$

3 $v^2 = u^2 + 2as$

4 $P = \frac{W}{t}$

Which three equations can be used to derive the equation for E_K ?

A 1, 2 and 3

B 1, 2 and 4

C 1, 3 and 4

D 2, 3 and 4