Formula You Need To Remember!

You need to remember and be able to use these formula for your M1 exam. You will be given no formula in the exam!

SUVAT Equations

$$v = u + at$$

$$s = ut + \tfrac{1}{2}at^2$$

$$s = vt - \tfrac{1}{2}at^2$$

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

$$s = \tfrac{1}{2}(u + v)t$$

where s is displacement, u initial velocity, v final velocity, a acceleration and t time.

Impulse

$$I = mv - mu = m(v - u)$$