20-P-FA-AF-008

Newtons Law/Eqn of Motion

Q: The weight of an falling to earth is $W_E = E$ 'N'. What is its mass?

↳ ans

What force pushing upwards is required to slow its acceleration to $a = A$ m/s² [downwards].

↳ ans

There is an object $\ell = R$ m away with a mass MZ kg. What is the force of attraction between these two objects?

↳ ans

A: $W/g = M$ (1)

$W - N = MA$

$W - MA = N$ (2)

$$F = G\frac{MZ \cdot M}{R^2}$$