fixe	end of a light elastic spring, of natural length a and modulus of elasticity $5mg$, is attached to a point A . The other end of the spring is attached to a particle P of mass m . The spring hangs with P ically below A . The particle P is released from rest in the position where the extension of the spring a .
(a)	Show that the initial acceleration of P is $\frac{3}{2}g$ upwards. [3]

© UCLES 2020 9231/32/M/J/20

 •••••
 •••••