

2 The unit of work, the joule, may be defined as the work done when the point of application of a force of 1 newton is moved a distance of 1 metre in the direction of the force.

Express the joule in terms of the base units of mass, length and time, the kg, m and s.

A $\text{kg m}^{-1} \text{s}^2$

B $\text{kg m}^2 \text{s}^{-2}$

C $\text{kg m}^2 \text{s}^{-1}$

D kg s^{-2}

3 Two forces, each of 10 N, act at a point P as shown in the diagram. The angle between the