- 1 Which list contains only SI base units?
 - A ampere, kelvin, joule, gram
 - B kilogram, newton, metre, ampere
 - c metre, coulomb, second, kelvin
 - D second, kelvin, ampere, kilogram
- **2** The stress σ needed to fracture a particular solid is given by the equation

$$\sigma = k \sqrt{\frac{\gamma E}{d}}$$

where E is the Young modulus, d is the distance between planes of atoms, and k is a constant with no units.

What are the SI base units of γ ?

- \mathbf{A} kg m s⁻²
- **B** $kg s^{-2}$
- \mathbf{C} kg m s⁻¹
- **D** kg s⁻¹

3 Vectors P and Q are drawn to scale.



Which diagram represents the vector (P - Q)?





C

D



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