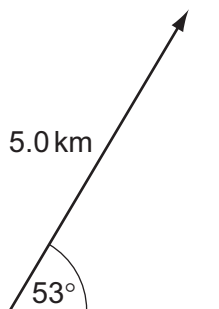


- 1 The diagram shows a displacement vector.



What is the vertical component of this displacement vector?

- A** 3.0 km **B** 4.0 km **C** 5.0 km **D** 6.6 km
- 2 What is the unit of power, expressed in SI base units?
- A** $\text{kg m}^2 \text{s}^{-3}$ **B** kg m s^{-3} **C** kg m s^{-2} **D** $\text{kg m}^2 \text{s}^{-1}$
- 3 Which statement is **incorrect** by a factor of 100 or more?
- A** Atmospheric pressure is about $1 \times 10^5 \text{ Pa}$.
- B** Light takes $5 \times 10^2 \text{ s}$ to reach us from the Sun.
- C** The frequency of ultra-violet light is $3 \times 10^{12} \text{ Hz}$.
- D** The life-span of a man is about $2 \times 10^9 \text{ s}$.

Space for working