

- (b) A star in the constellation Canis Major is a distance of  $8.14 \times 10^{16}$  m from the Earth and has a luminosity of  $9.86 \times 10^{27}$  W. The surface temperature of the star is 9830 K.
- (i) Calculate the radiant flux intensity of the radiation from the star observed from the Earth. Give a unit with your answer.

$$F = \frac{L}{4\pi d^2} = \frac{9.86 \times 10^{27}}{4\pi \times (8.14 \times 10^{16})^2} = 9.86 \times 10^{27} \text{ Wm}^{-2}$$

Radiant flux intensity = \_\_\_\_\_ Unit \_\_\_\_\_ (2)

- (ii) Determine the radius of the star.

$$L = \sigma T^4 4\pi r^2$$

$$r = \sqrt{\frac{L}{\sigma T^4 \times 4\pi}} = \sqrt{\frac{9.86 \times 10^{27}}{5.67 \times 10^{-8} \times 9830^4 \times 4\pi}}$$

Radius =  $1.22 \times 10^9$  m (2)

# A2 Physics

**Katrin Zwirgmaier**



**A2 Physics:**

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