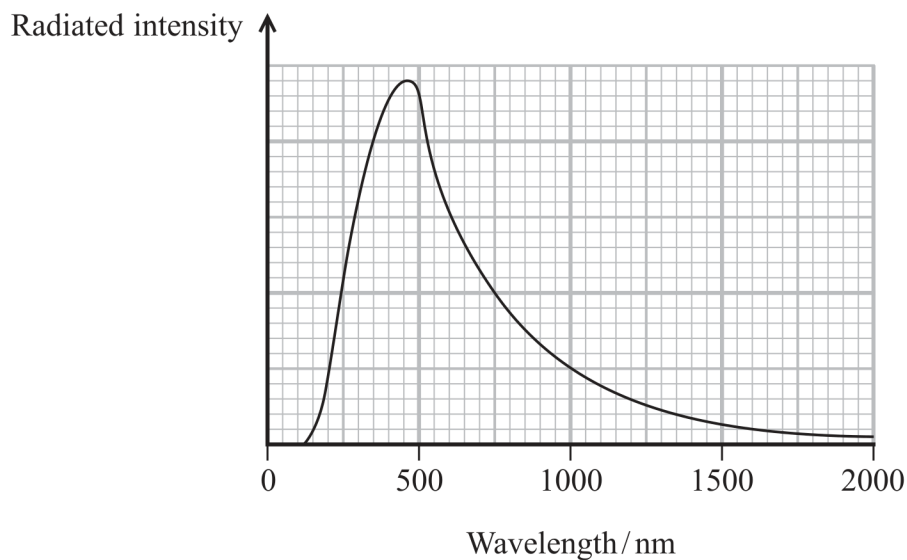


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- 15** Procyon is the brightest star in the constellation Canis Minor. The graph shows how the radiated intensity from Procyon varies with wavelength.



A website states that Procyon has twice the diameter of the Sun.

Assess the accuracy of this statement.

luminosity of Procyon = $2.65 \times 10^{27} \text{ W}$

diameter of Sun = $6.96 \times 10^8 \text{ m}$

(Total for Question 15 = 5 marks)