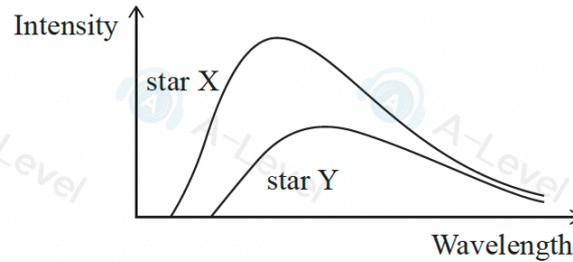


- 9 The graphs show how the radiation intensity varies with wavelength for star X and star Y. The surface temperature of star X is T_X and the surface temperature of star Y is T_Y .

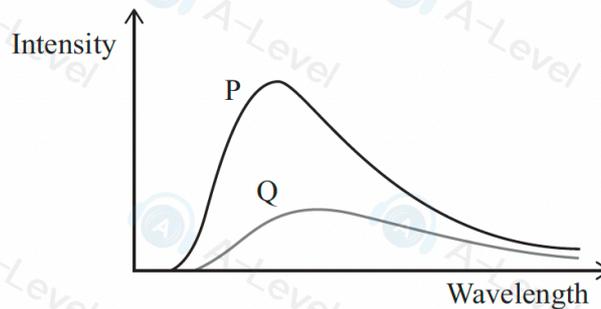


Which of the following statements is correct?

- A $T_Y > T_X$ because the peak intensity for star Y is at the lower frequency.
- B $T_Y > T_X$ because the peak intensity for star Y is at the higher frequency.
- C $T_X > T_Y$ because the peak intensity for star X is at the lower frequency.
- D $T_X > T_Y$ because the peak intensity for star X is at the higher frequency.

(Total for Question 9 = 1 mark)

- 3 The graph shows how intensity of radiation varies with wavelength for two stars, P and Q.



Which of the following could be deduced from the graph?

- A Luminosity of P > Luminosity of Q
- B Mass of P > Mass of Q
- C Radius of P > Radius of Q
- D Temperature of P > Temperature of Q

(Total for Question 3 = 1 mark)