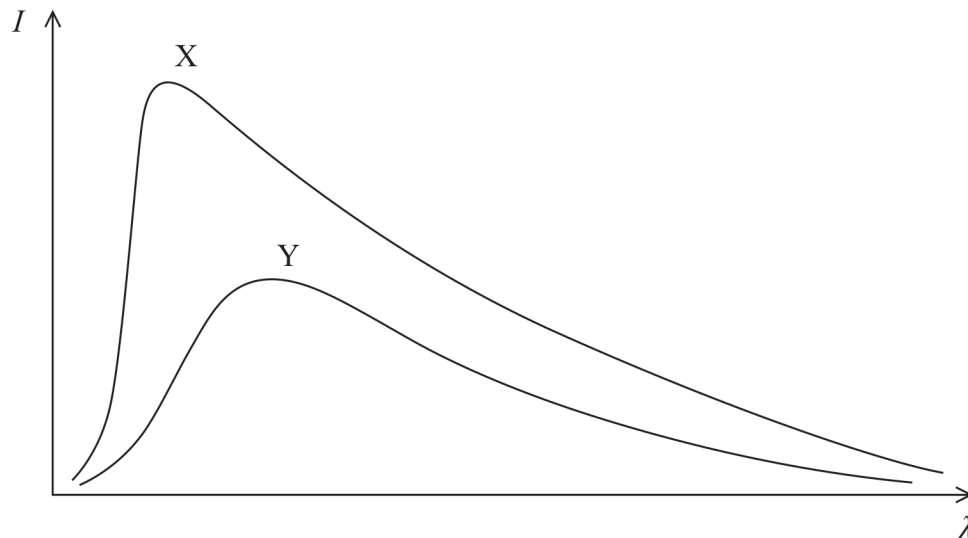


- 10 Two stars, X and Y, behave as black body radiators. The graphs show how the intensity I of radiation emitted varies with wavelength λ for the two stars.



The stars are both viewed from the same distance.

Which of the following statements can be deduced from the two graphs?

- ☒ A Star X is brighter and has a higher surface temperature than star Y.
- ☒ B Star X is brighter and has a lower surface temperature than star Y.
- ☒ C Star X is dimmer and has a higher surface temperature than star Y.
- ☒ D Star X is dimmer and has a lower surface temperature than star Y.

(Total for Question 10 = 1 mark)