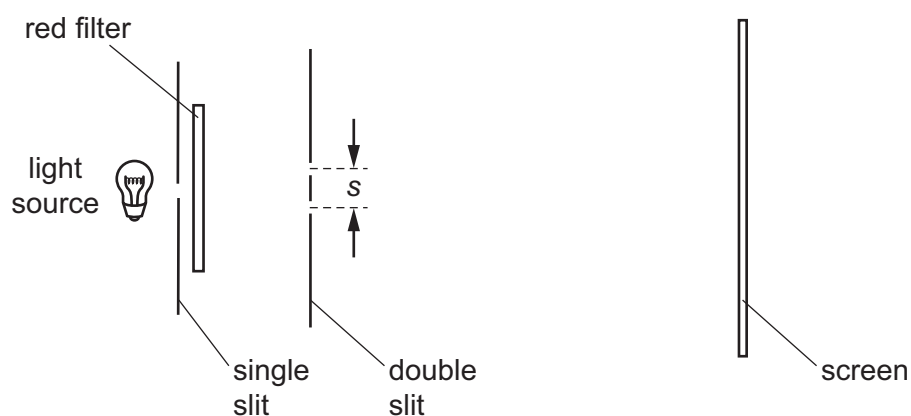


- 25** Part of a car was damaged by heating when, on a sunny day, the car was left in front of a curved mirrored building which focussed reflected sunlight onto the car.

Which statement about sunlight correctly explains this observation?

- A** Sunlight contains infra-red radiation.
  - B** Sunlight contains ultraviolet radiation.
  - C** Sunlight is a longitudinal progressive wave which carries energy.
  - D** Sunlight is a transverse standing wave which carries energy.
- 26** A student sets up an experiment to investigate double-slit interference of light but finds that the interference fringes observed on the screen are too close to each other to be distinguished.



Which change would help the student to distinguish the fringes?

- A** decrease the distance  $s$  between the two slits
  - B** increase the width of each slit
  - C** move the screen closer to the light source
  - D** use a blue filter instead of a red filter
- 27** Ships have been damaged by water waves with large amplitudes. These waves could have been formed by adding the displacements of smaller waves.

Which term describes this phenomenon?

- A** diffraction
- B** polarisation
- C** refraction
- D** superposition