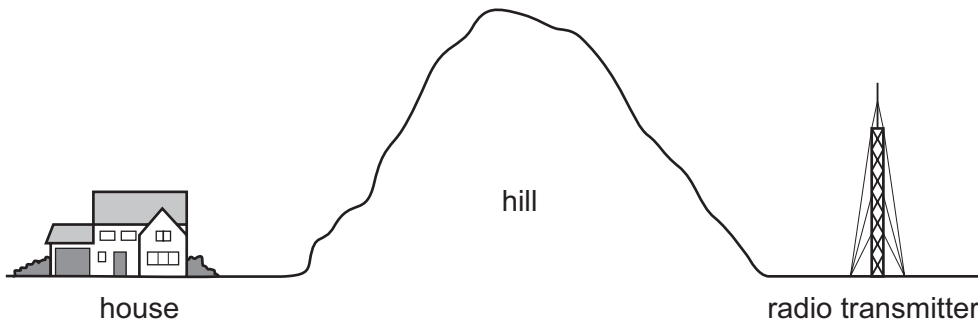


**29** A hill stands between a radio transmitter and a house, as shown.



The radio transmitter cannot be seen from the house, but radio waves from the transmitter are received at the house.

Why is this?

- A** The wavelength of light is longer than the wavelength of radio waves so there is more diffraction of light over the hill.
- B** The wavelength of light is shorter than the wavelength of radio waves so there is more diffraction of light over the hill.
- C** The wavelength of radio waves is longer than the wavelength of light so there is more diffraction of radio waves over the hill.
- D** The wavelength of radio waves is shorter than the wavelength of light so there is more diffraction of radio waves over the hill.