

21 Which of the following types of wave can be polarised?

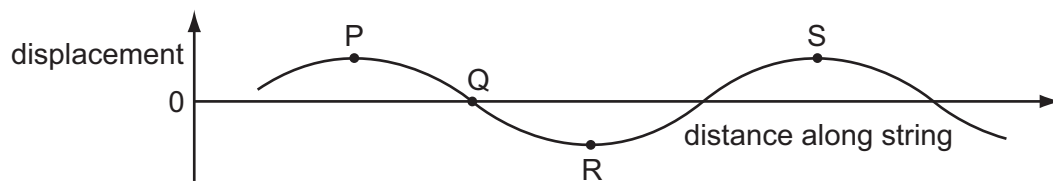
- A a longitudinal progressive wave
- B a longitudinal stationary wave
- C a transverse stationary wave
- D a transverse sound wave

22 Sound wave X has intensity 10^{12} times greater than that of sound wave Y.

By how much is the amplitude of X greater than the amplitude of Y?

- A 10^6 times
- B 3.16×10^6 times
- C 5×10^{11} times
- D 10^{12} times

23 The graph shows the shape at a particular instant of part of a transverse wave travelling along a string.



Which statement about the motion of points in the string is correct?

- A The speed at point P is a maximum.
- B The displacement at point Q is always zero.
- C The energy at point R is entirely kinetic.
- D The acceleration at point S is a maximum.