26 The diagram shows part of a stationary wave on a string.
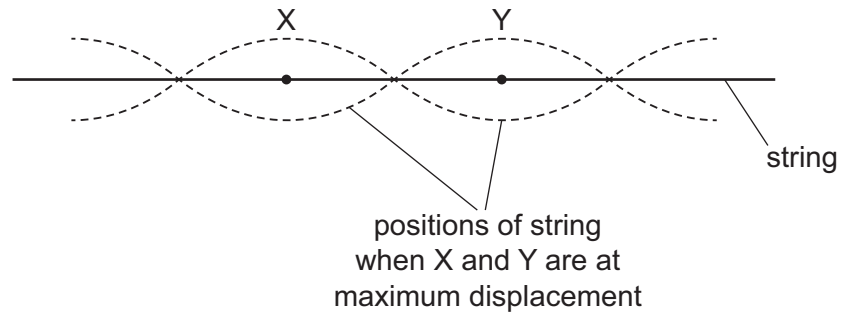
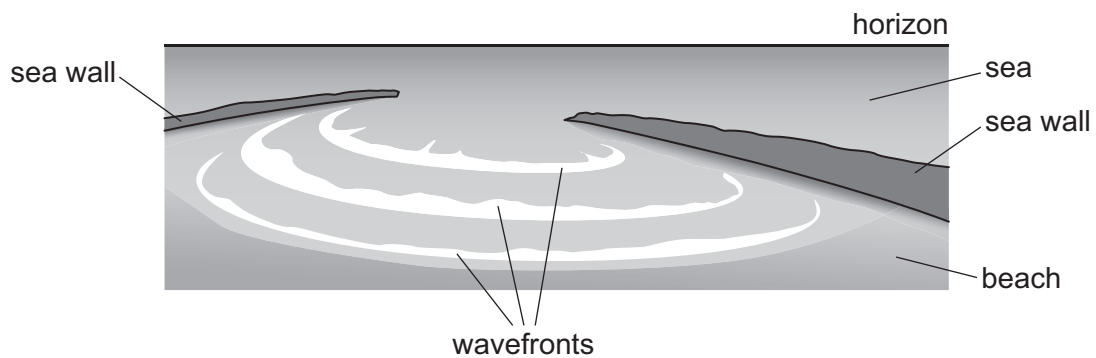X and Y are points on the string. The vibrations at X and Y are 180° out of phase.

X   Y

string

positions of string
when X and Y are at
maximum displacement

What is the distance between X and Y?

A   one-quarter of a wavelength

B   half a wavelength

C   one wavelength

D   two wavelengths

27 Which wave behaviour is shown in the diagram?

horizon

sea wall

sea

sea wall

beach

wavefronts

A   diffraction

B   Doppler shift

C   interference

D   superposition