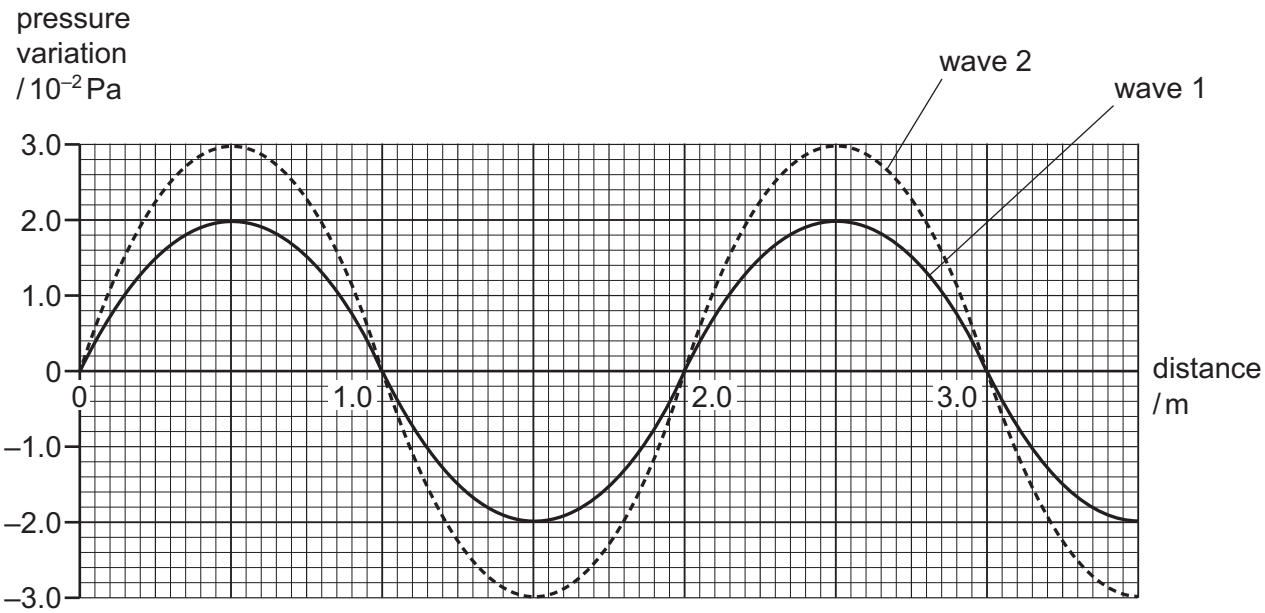
23 A sound wave consists of a series of moving pressure variations from the normal, constant air pressure.

The graph shows these pressure variations for two waves at one instant in time.



Wave 1 has an intensity of $1.6 \times 10^{-6}\,W\,m^{-2}$.

What is the intensity of wave 2?

A $2.4 \times 10^{-6}\,W\,m^{-2}$

B $3.0 \times 10^{-6}\,W\,m^{-2}$

C $3.6 \times 10^{-6}\,W\,m^{-2}$

D $4.5 \times 10^{-6}\,W\,m^{-2}$

Space for working