

14 The frequency of a certain wave is 500 Hz and its speed is 340 m s^{-1} .

What is the phase difference between the motions of two points on the wave 0.425 m apart?

A $\frac{2\pi}{4}$ rad

B $\frac{3\pi}{4}$ rad

C $\frac{5\pi}{4}$ rad

D $\frac{8\pi}{4}$ rad