

15 A wave is travelling on a string in the x-direction.

Fig. (a) and Fig. (b) show the variation with distance x of the displacement y of the string.

Fig. (a) corresponds to time $t = 0.00$ s while Fig. (b) corresponds to time $t = 0.20$ s.

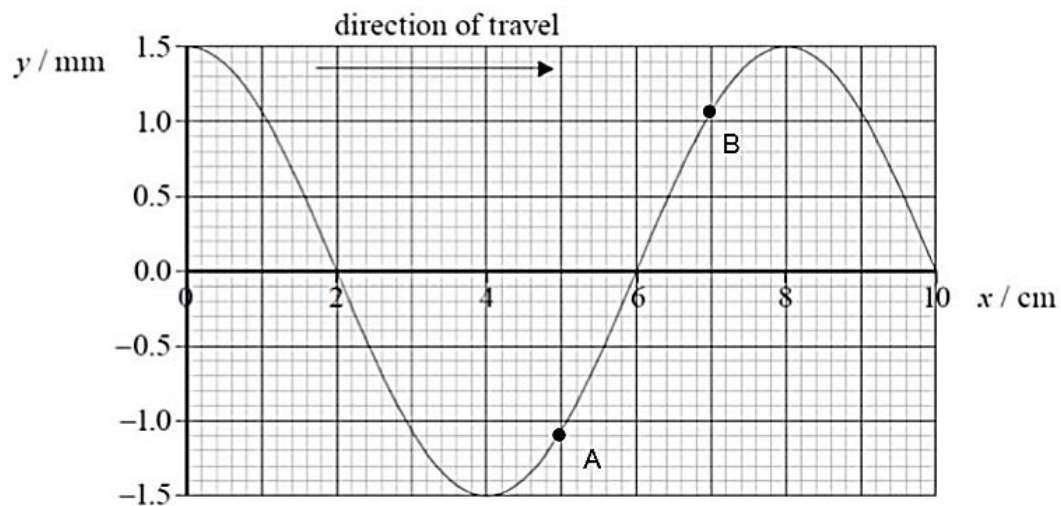


Fig. (a)

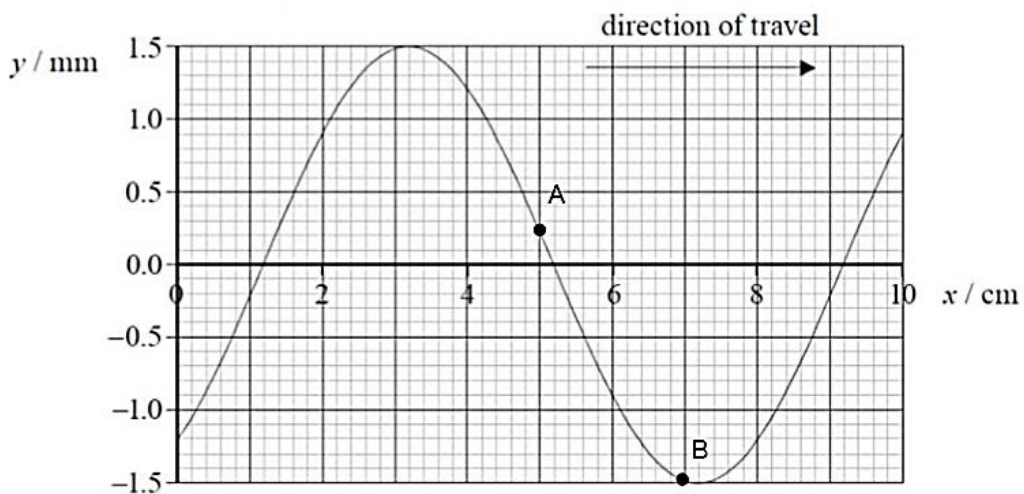


Fig. (b)

Which of the following is correct about the speed of the wave and the phase difference between A and B?

	speed / m s ⁻¹	phase difference / radians
A	0.16	0.5π
B	0.16	0.25π
C	6.8	0.5π
D	6.8	0.25π