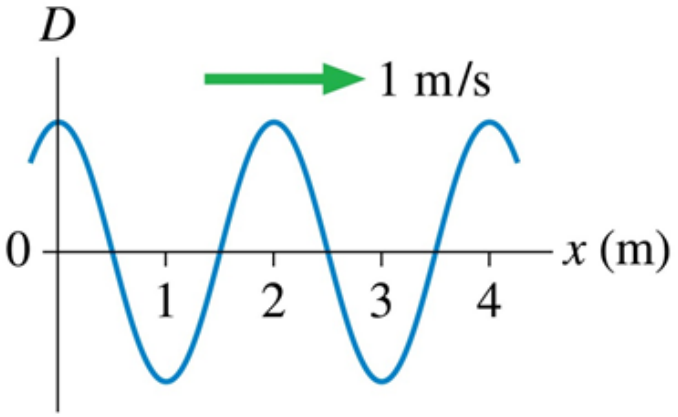
QUIZ – WAVES

DEAKIN COLLEGE
in association with
DEAKIN UNIVERSITY

QUICK CHECK 1

The period of this wave is

A. 1 s
B. 2 s
C. 4 s
D. Not enough information to tell



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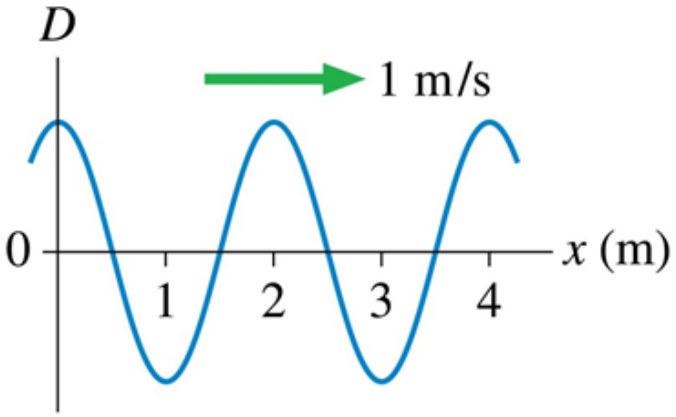


A. 1 s

✔ B. 2 s

C. 4 s

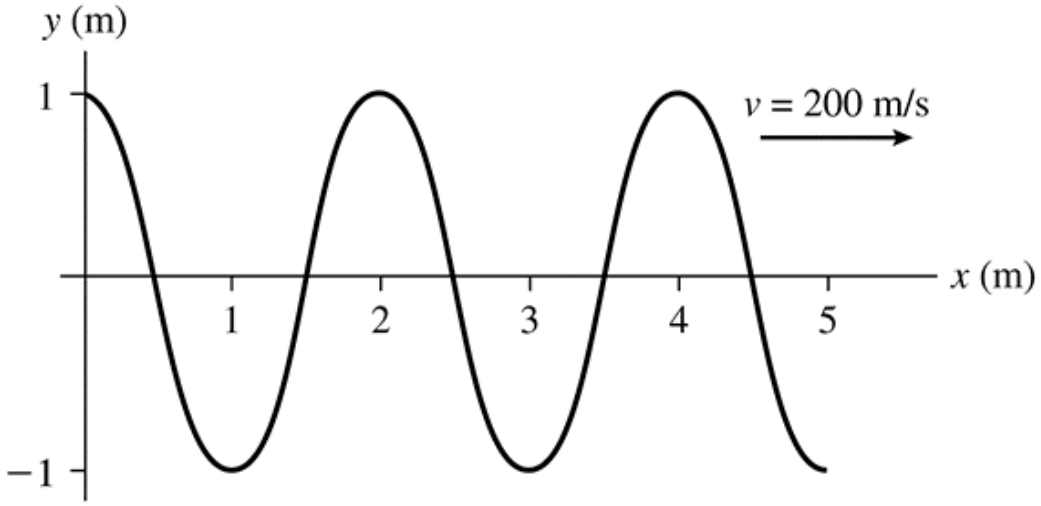
D. Not enough information to tell

A sinusoidal wave moves forward one wavelength (2 m) in one period.

QUICK CHECK 2

For this sinusoidal wave, what is the amplitude?

A. 0.5 m
B. 1 m
C. 2 m
D. 4 m



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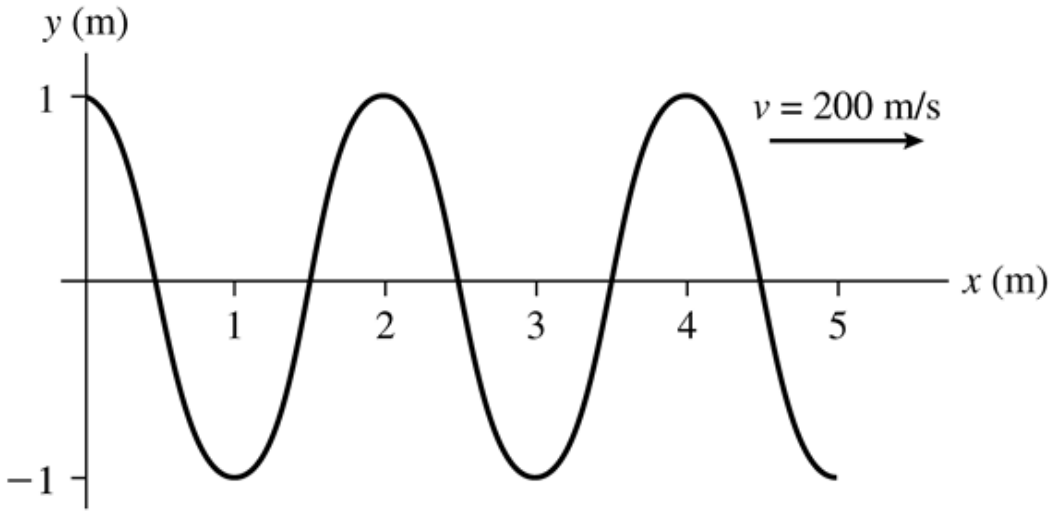
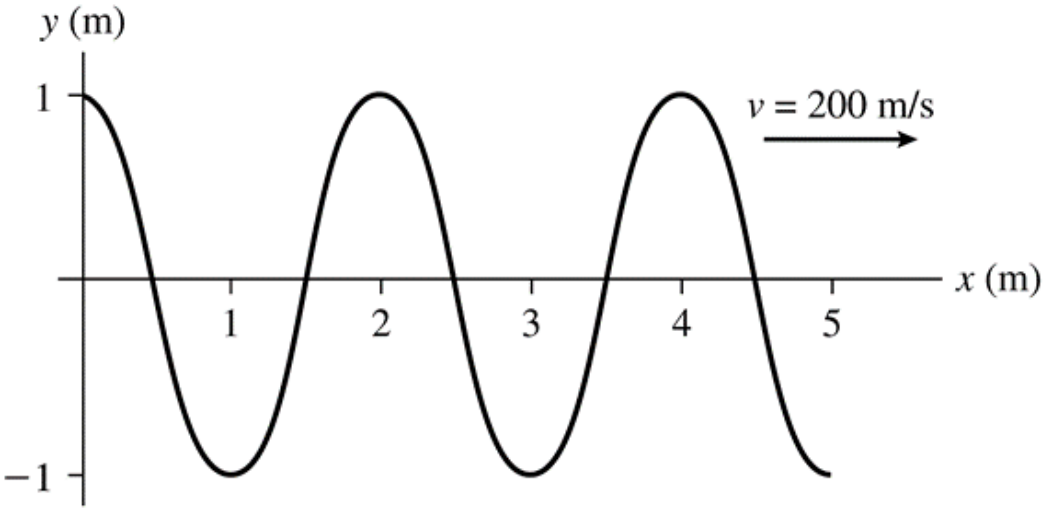


QUICK CHECK 3

For this sinusoidal wave, what is the wavelength?

A. 0.5 m
B. 1 m
C. 2 m
D. 4 m



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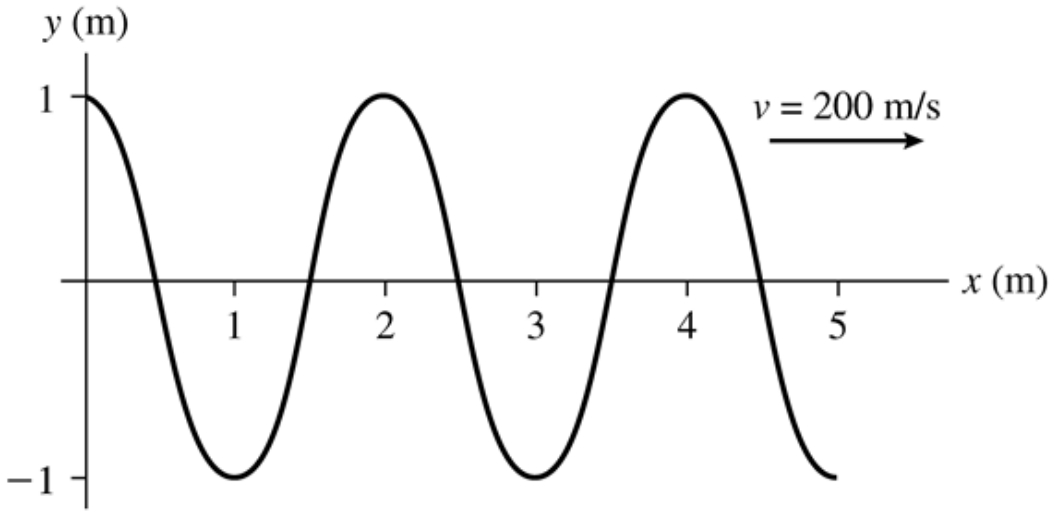
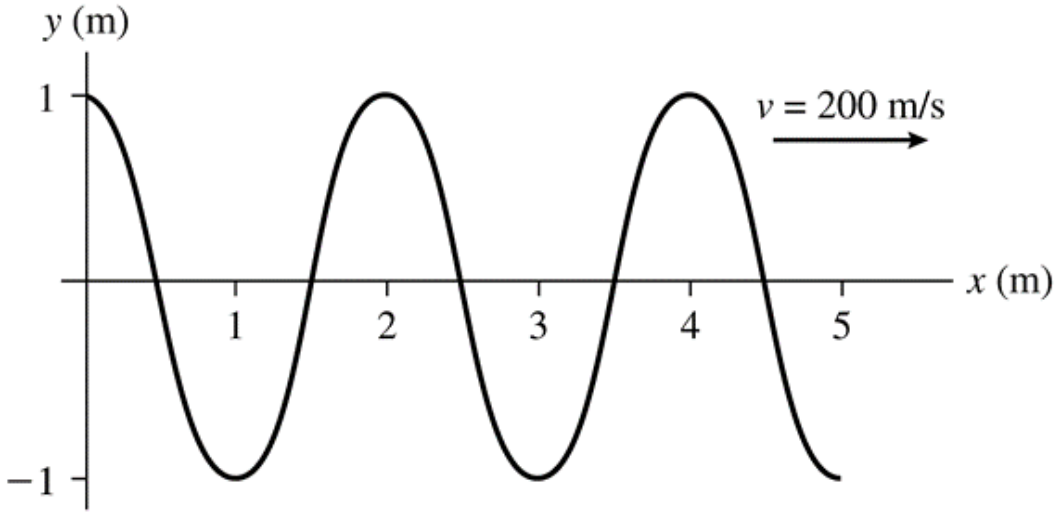


QUICK CHECK 4

For this sinusoidal wave, what is the frequency?

A. 50 Hz
B. 100 Hz
C. 200 Hz
D. 400 Hz



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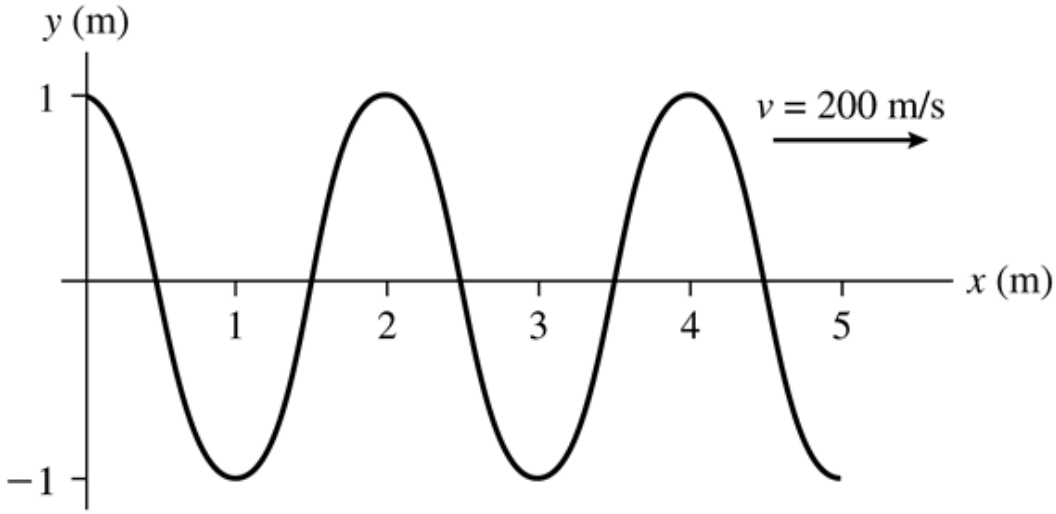
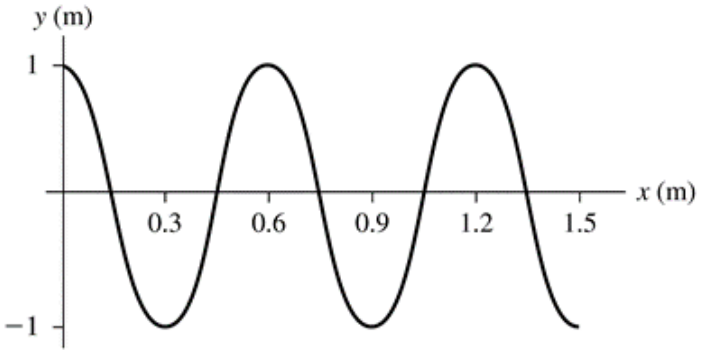
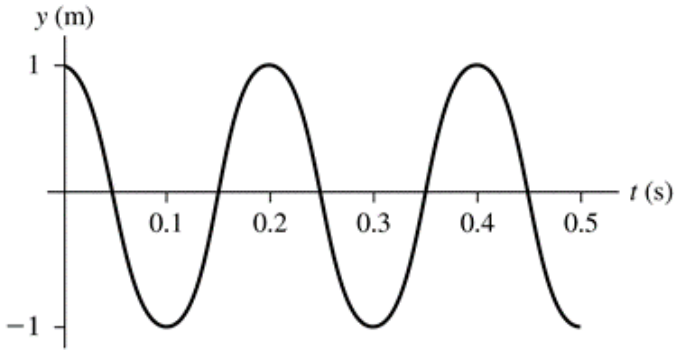


QUICK CHECK 5

A snapshot and a history graph for a sinusoidal wave on a string appear as follows:





What is the speed of the wave?

A. 1.5 m/s

B. 3.0 m/s

C. 5.0 m/s

D. 15 m/s

QUICK CHECK 5

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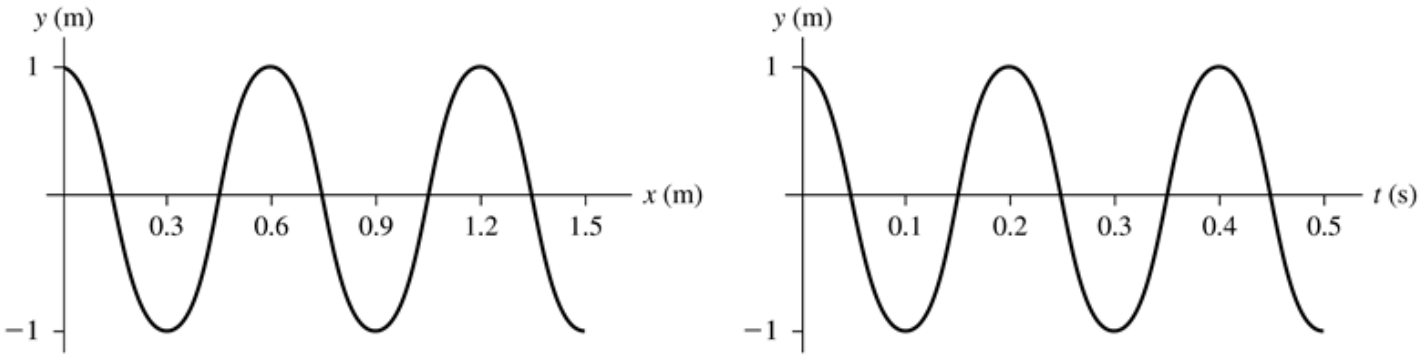

What is the speed of the wave?

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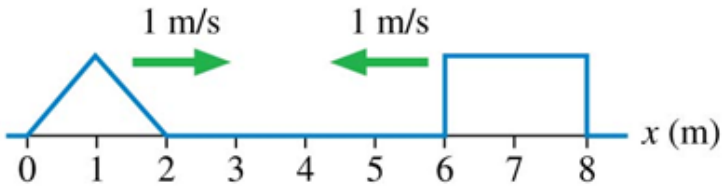
C. 5.0 m/s

D. 15 m/s

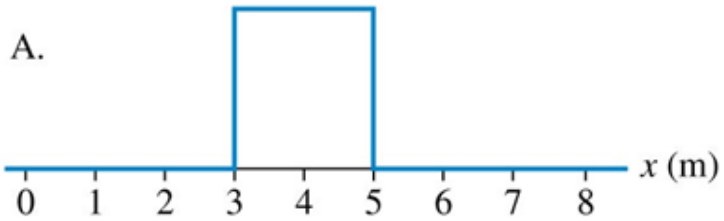
QUICK CHECK 6

Two wave pulses on a string approach each other at speeds of 1 m/s. How does the string look at $t = 3$ s?

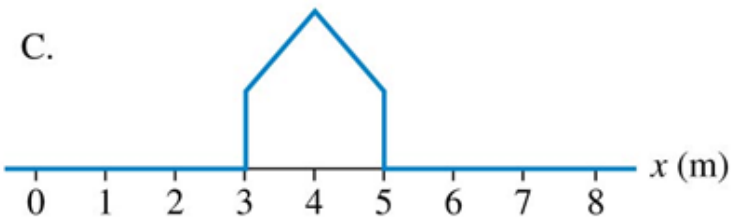


Approaching pulses at $t = 0$ s

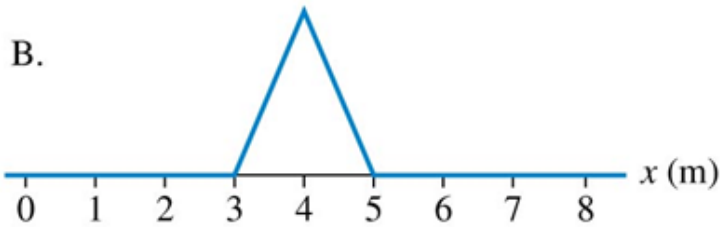
A.



C.



B.



D.

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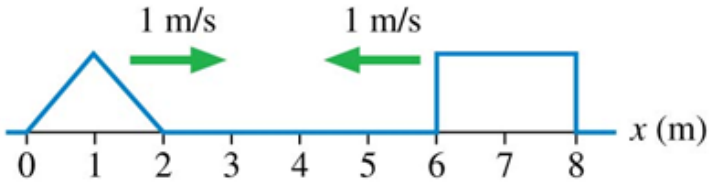
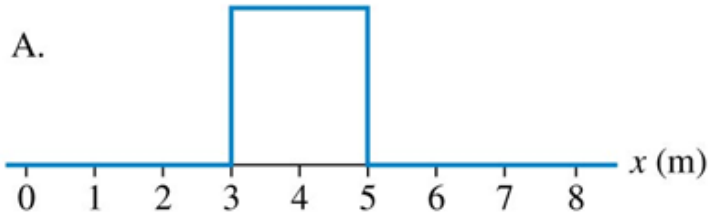
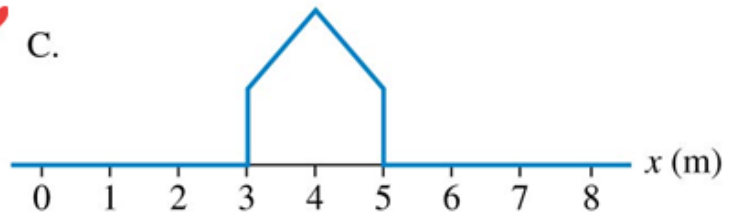


Approaching pulses at $t = 0$ s

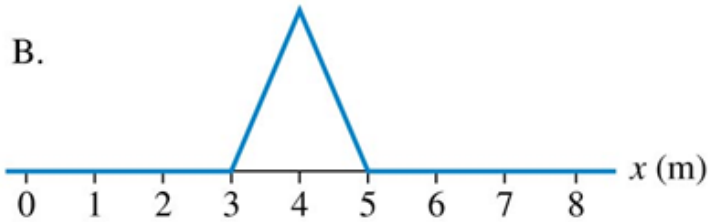
A.



C.



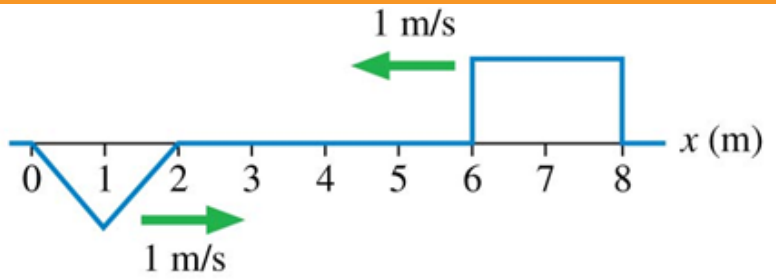
B.



D.

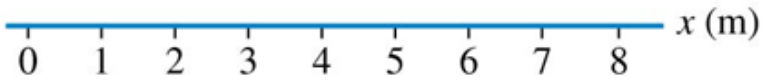
QUICK CHECK 7

Two wave pulses on a string approach each other at speeds of 1 m/s. How does the string look at $t = 3$ s?

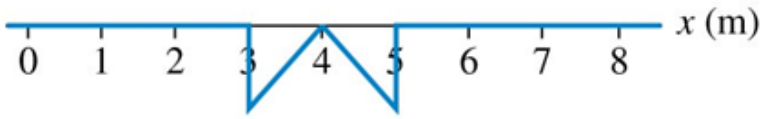


Approaching pulses at $t = 0$ s

A.

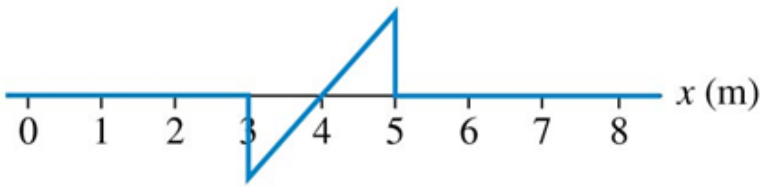


C.



B.

D.



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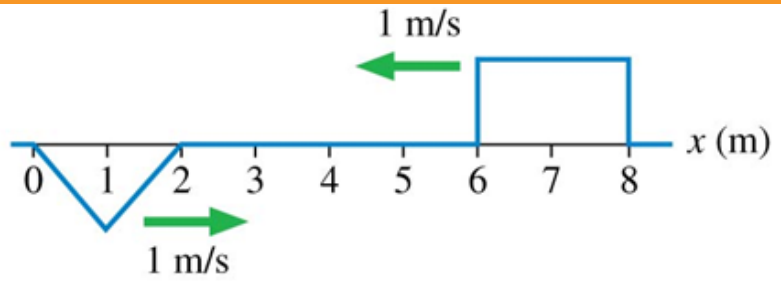

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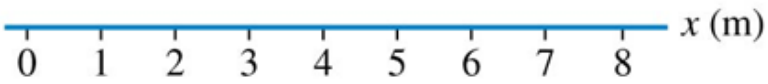
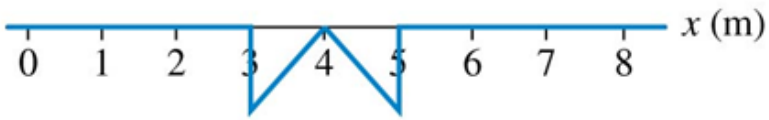
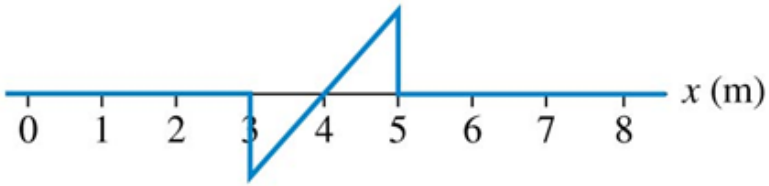


C.



✔ B.

D.



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