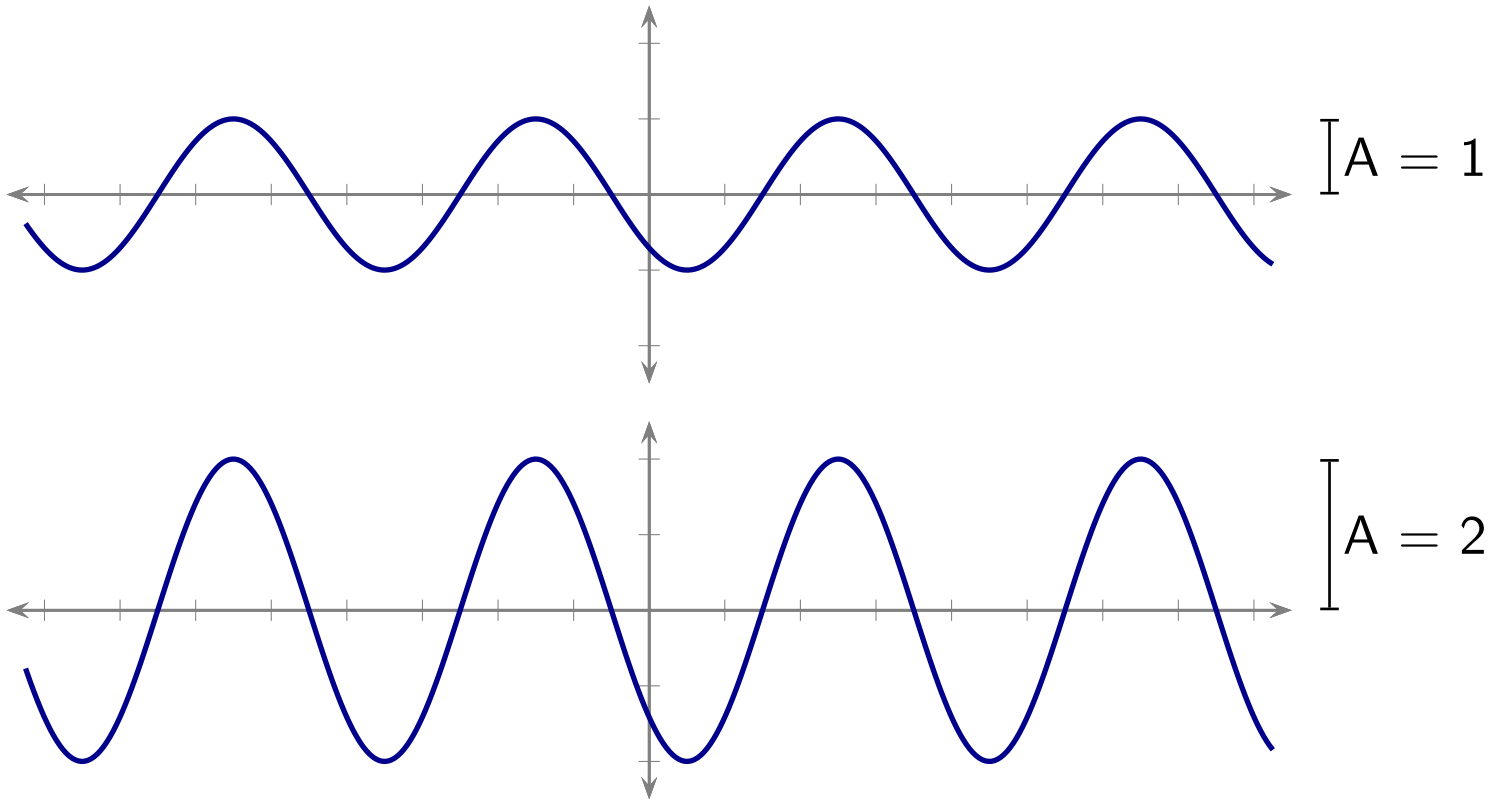
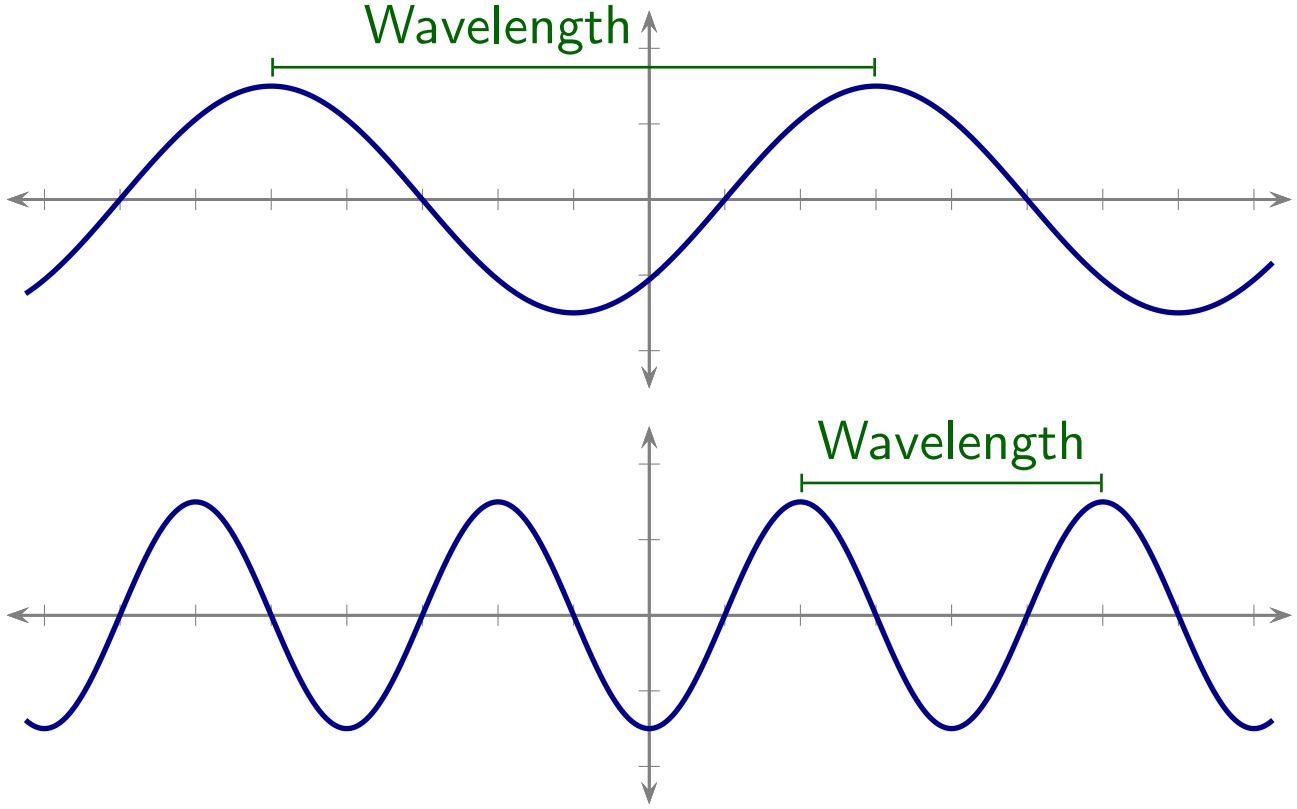
Continuous Waves: Amplitude

Snapshots of continuous waves.



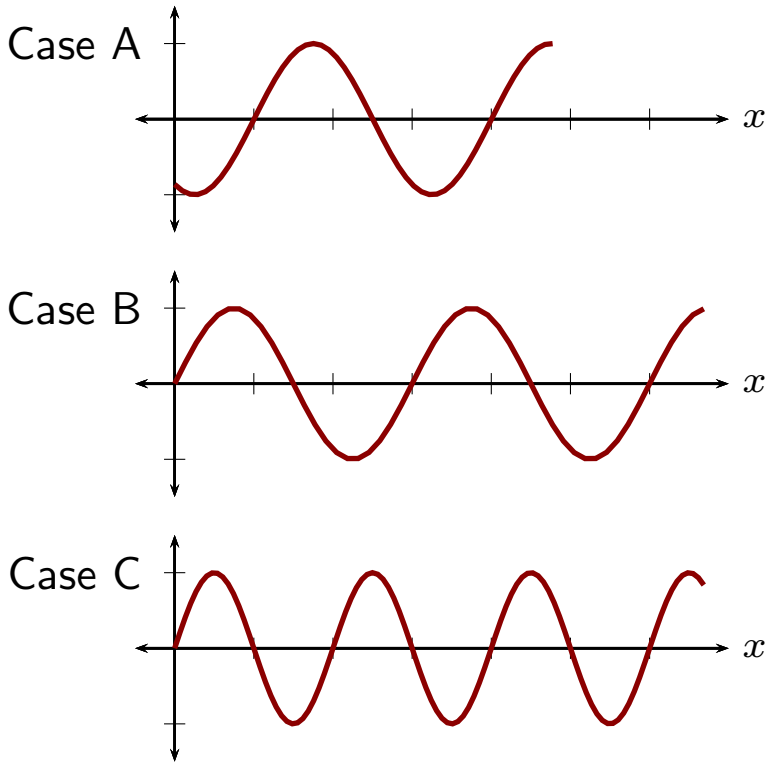
Continuous Waves: Wavelength

Snapshots of continuous waves.



Question 1

Snapshots of three waves on strings are illustrated.



Rank the waves in order of **wavelength.**

1. B same as C, larger than A.
2. A same as B, larger than C.
3. A same as B, smaller than C.
4. B largest, C middle, A smallest.
5. A largest, C middle, B smallest.

Question 2

The PhET "Waves on a String" demonstration is set up as follows:

Mode	Oscillate
Damping	0
End	no end
Amplitude	0.50
Tension	medium
Frequency	1

Which of the following is true regarding the wavelength:

1. 0.5 cm
2. 1 cm
3. 2 cm
4. 4 cm
5. 7 cm

Question 3

The PhET "Waves on a String" demonstration is set up as follows:

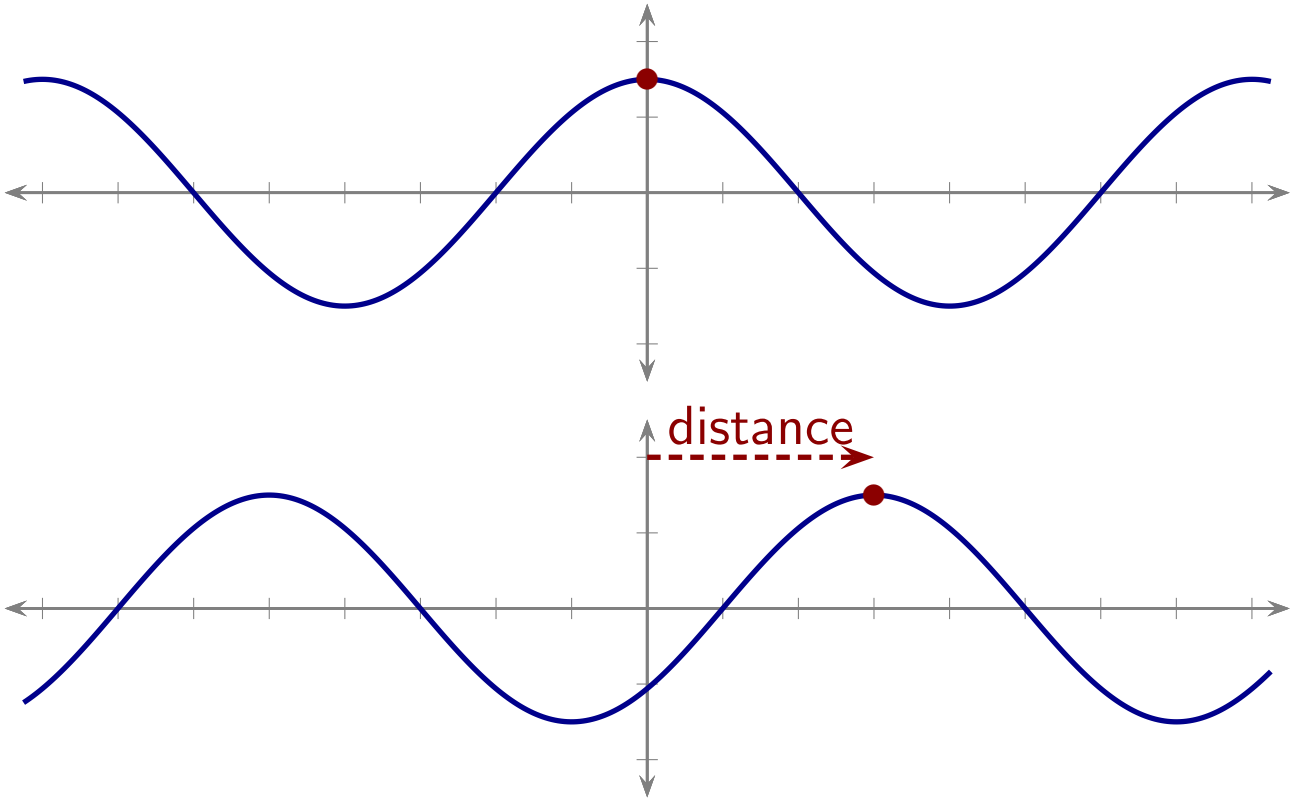
Mode	Oscillate
Damping	0
End	no end
Amplitude	$1.00\,\mathrm{cm}$
Tension	medium
Frequency	$0.66\,\mathrm{Hz}$

Which of the following is true regarding the period:

1. $0\,\mathrm{s}$
2. $1\,\mathrm{s}$
3. $1.5\,\mathrm{s}$
4. $2\,\mathrm{s}$
5. $7\,\mathrm{s}$

Continuous Waves: Speed

Snapshots of continuous waves and two intervals separated by time T.



$$\text{Speed} = \frac{\text{distance}}{\text{time } T}$$