

Question 1

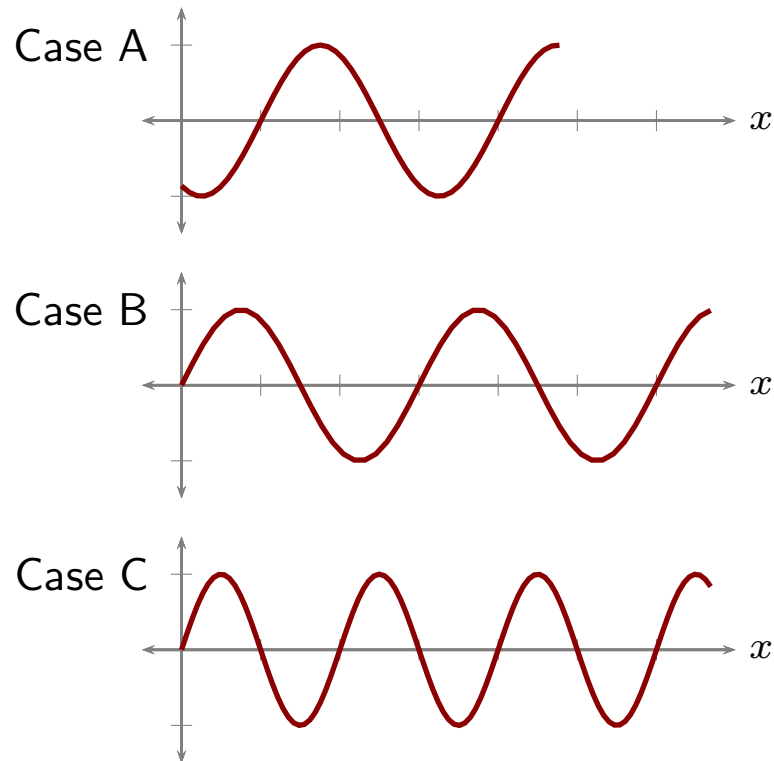
Two strings are made from the same material and are stretched under the same tension. One string is longer than the other.

Which of the following is true?

1. The wavespeeds are the same for the two strings.
2. The wavespeed is higher for the longer string.
3. The wavespeed is lower for the longer string.

Question 2

Snapshots of three waves on strings are illustrated.



Which of the following ranks these in order of wavelength?

1. $\lambda_A > \lambda_B = \lambda_C$
2. $\lambda_A < \lambda_B = \lambda_C$
3. $\lambda_A = \lambda_B < \lambda_C$
4. $\lambda_A = \lambda_B > \lambda_C$
5. $\lambda_A = \lambda_B = \lambda_C$