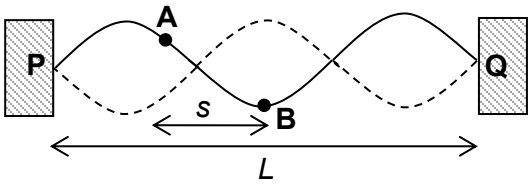
17 A guitar string of length L is stretched between two fixed points **P** and **Q** and made to vibrate transversely as shown below.



Two points **A** and **B** on the string are separated by a distance s. The maximum kinetic energies of points **A** and **B** are K_A and K_B respectively.

Which of the following gives the correct phase difference and relationship between maximum kinetic energies of the points?

	phase difference	maximum kinetic energy
A	$\frac{3s}{2L} \times 360^\circ$	$K_A < K_B$
B	$\frac{3s}{2L} \times 360^\circ$	same
C	180°	$K_A < K_B$
D	180°	same