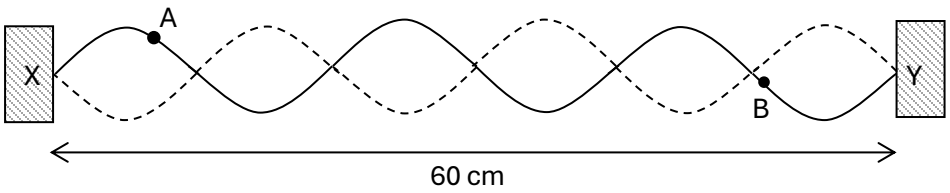
19 A string that is of length 60 cm is stretched between two fixed points X and Y, and made to vibrate transversely as shown in the figure.



Two particles A and B on the string are separated by a distance 42 cm as shown the diagram above. The maximum kinetic energies of A and B are K_A and K_B respectively.

Which of the following gives the correct phase difference and maximum kinetic energies of the particles?

	phase difference	maximum kinetic energy
A	0°	$K_A < K_B$
B	36°	$K_B < K_A$
C	180°	$K_B < K_A$
D	756°	$K_A < K_B$