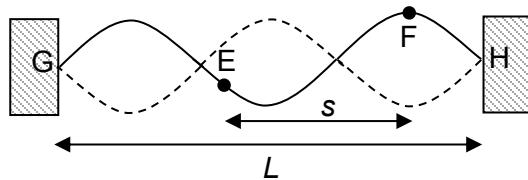


- 14** A string of length L is stretched between two fixed points G and H and made to vibrate transversely as shown below.



Two particles E and F on the string are separated by a distance s . The maximum kinetic energies of particles E and F are K_E and K_F respectively.

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

	phase difference / rad	maximum kinetic energy
A	$\frac{3s}{2L} \times 2\pi$	same
B	$\frac{3s}{2L} \times 2\pi$	$K_E < K_F$
C	π	same
D	π	$K_E < K_F$