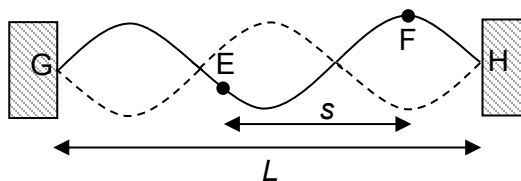


- 14 A string of length  $L$  is stretched between two fixed points G and H and made to vibrate transversely as shown below.



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
<b>A</b>	$\frac{3s}{2L} \times 2\pi$	same
<b>B</b>	$\frac{3s}{2L} \times 2\pi$	$K_E < K_F$
<b>C</b>	$\pi$	same
<b>D</b>	$\pi$	$K_E < K_F$