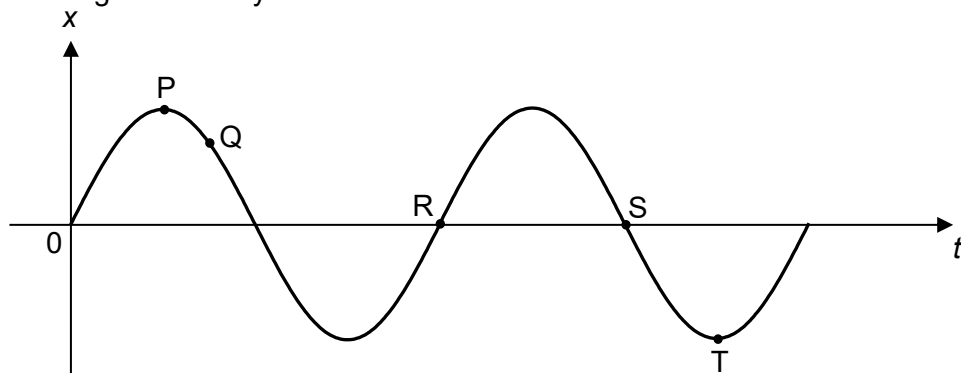


- 16** The graph below shows the variation with time  $t$  of the displacement  $x$  of a simple harmonic oscillator oscillating horizontally.



Which statement is correct?

- A** The phase difference between P and S is  $\frac{\pi}{2}$  rad.
- B** The acceleration at T is zero.
- C** The potential energy of the oscillator is larger at Q compared to T.
- D** The kinetic energy of the oscillator is larger at Q compared to R.

- 17** The diagram below shows three polarisers W, X and Y.