

- 15 Diagram 1 shows the variation with displacement  $x$  of velocity  $v$  of a simple harmonic oscillator. Diagram 2 shows the variation with time  $t$  of the velocity  $v$  of the oscillator.

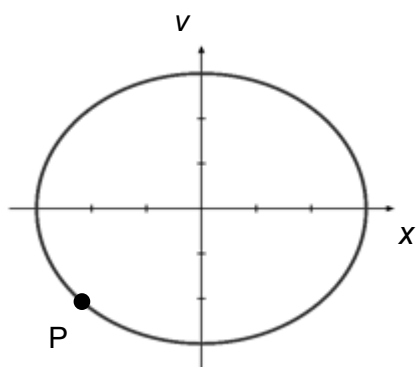


diagram 1

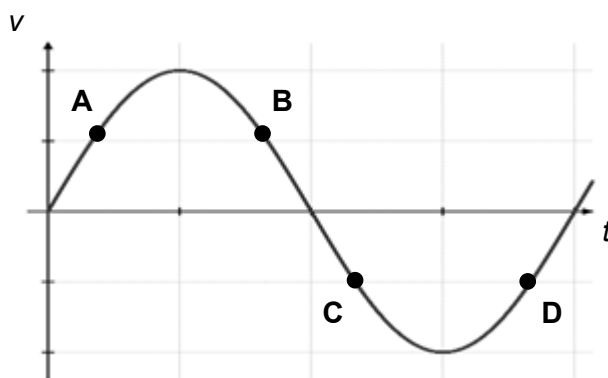


diagram 2

Which of the points on diagram 2 corresponds to the state of motion represented by point P on diagram 1?