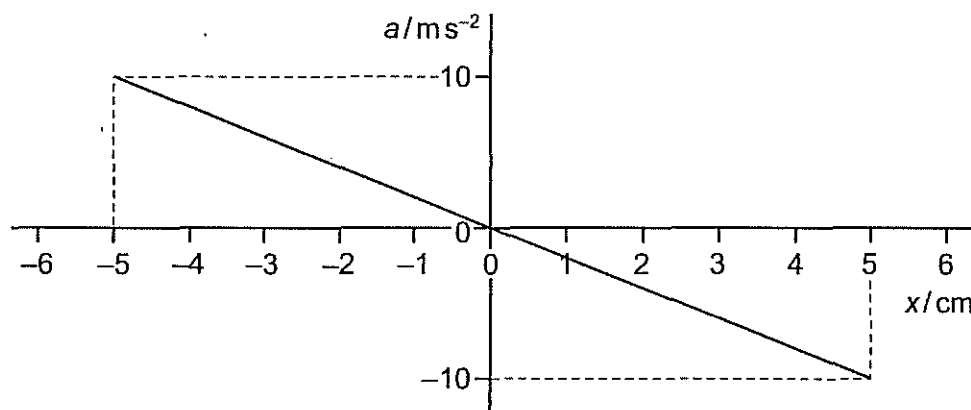


15 The defining equation for a particle moving in simple harmonic motion is

$$a = -\omega^2 x$$

where  $a$  is the acceleration of the particle,  $x$  is the displacement and  $\omega$  is the angular frequency.

The graph shows how  $a$  varies with  $x$  for a particle moving in simple harmonic motion.



What is the amplitude and period of the motion?

	amplitude/cm	period/s
<b>A</b>	5.0	0.44
<b>B</b>	5.0	14
<b>C</b>	10	0.44
<b>D</b>	10	14