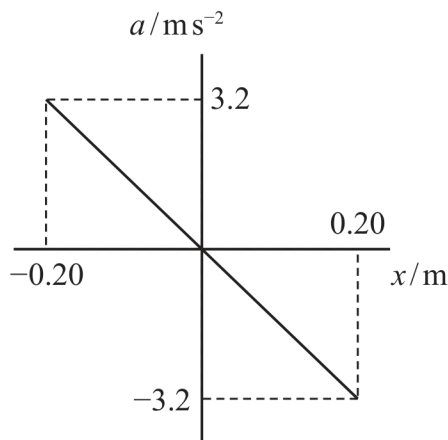


- 10 A mass oscillates with simple harmonic motion. The graph shows how the acceleration a of the mass depends upon displacement x from the equilibrium position.



Which of the following gives the period of oscillation, in seconds, of the mass?

- ☐ A $2\pi \times \left(\frac{3.2}{0.20} \right)$
- ☐ B $2\pi \times \left(\frac{0.20}{3.2} \right)$
- ☐ C $2\pi \times \sqrt{\left(\frac{3.2}{0.20} \right)}$
- ☐ D $2\pi \times \sqrt{\left(\frac{0.20}{3.2} \right)}$

(Total for Question 10 = 1 mark)