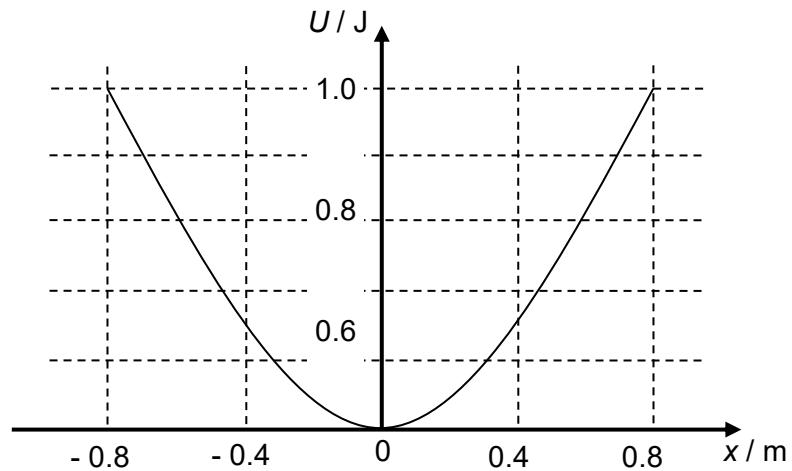


- 10** A particle of mass 5.0 kg moves with simple harmonic motion and the variation with position  $x$  of its potential energy  $U$  is shown below.



What is the period of oscillation of the mass?

**A**  $7.9 \text{ s}$

**B**  $8.8 \text{ s}$

**C**  $11 \text{ s}$

**D**  $20 \text{ s}$