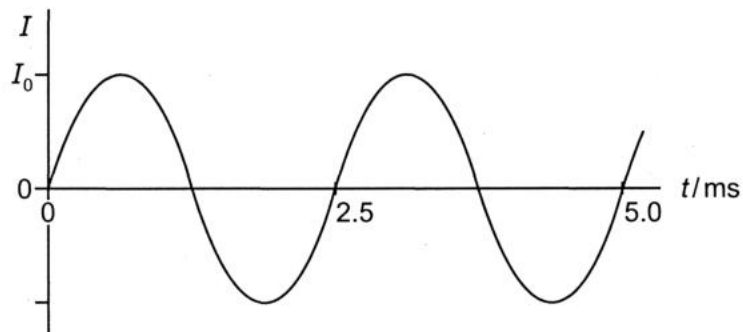


34 The graph shows how an alternating current I of peak value I_0 varies with time t .



Which expression gives the alternating current I ?

A $I = I_0 \sin(5\pi t)$

B $I = I_0 \sin\left(\frac{2\pi t}{2.5}\right)$

C $I = I_0 \sin\left(\frac{\pi t}{0.0025}\right)$

D $I = I_0 \sin(800\pi t)$