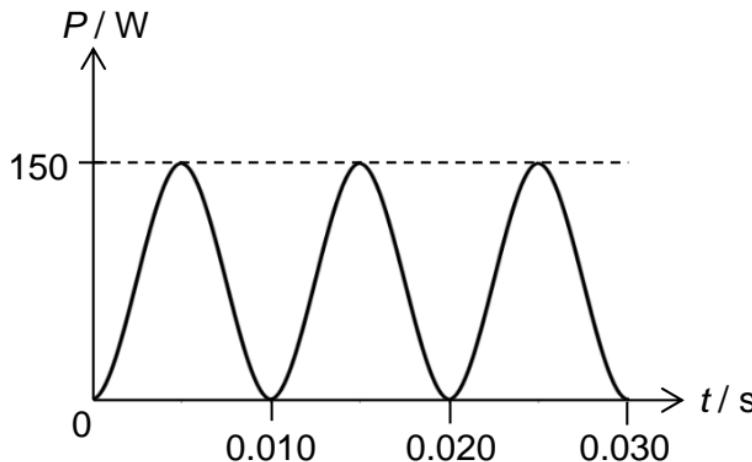


- 26 The graph shows the variation with time t of the power P dissipated in a resistor of resistance $6.0\ \Omega$ when it is connected to an alternating supply.



Which equation represents the sinusoidal alternating current through the resistor?

A $I = 5.0 \sin 100\pi t$

B $I = 5.0 \sin 200\pi t$

C $I = 25 \sin 100\pi t$

D $I = 25 \sin 300\pi t$