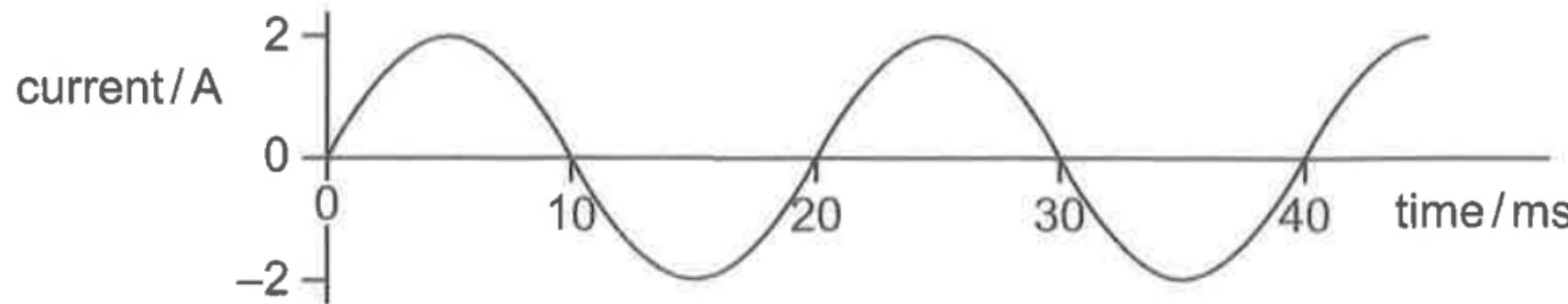


- 27 An a.c. generator is connected to a resistor of resistance  $20\Omega$ . The graph shows the variation of the current in the resistor with time.



The rotational speed of the a.c. generator is halved.

What is now the mean power dissipated in the resistor?

A 5W

B 10W

C 20W

D 40W

- 28 An electron has a kinetic energy  $E$  and a de Broglie wavelength  $\lambda$ .