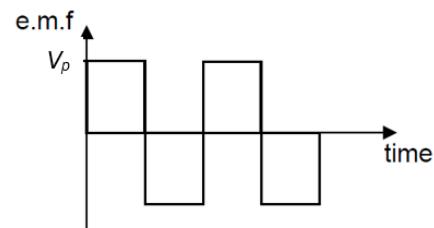
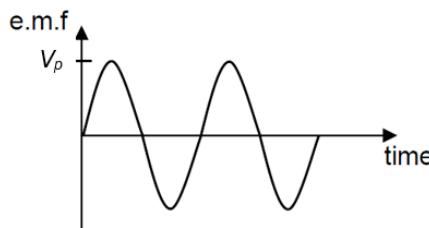


- 27** A voltage supply connected to a signal generator can either produce an alternating voltage with a sinusoidal waveform or a square waveform with the same peak value of e.m.f. V_p as illustrated below. The voltage supply is connected across a load resistor.



mean power dissipated in the load resistor by the square waveform

What is the
ratio

?

mean power dissipated in the load resistor by the sinusoidal waveform

A 0.25

B 0.5

C 2

D 4