

- 25** A $3.0\ \Omega$ resistor is connected to a sinusoidal a.c. supply. An oscilloscope records a peak voltage of 9.0 V when connected across the resistor.

What is the r.m.s. current flowing through the resistor?

A 2.1 A

B 3.0 A

C 6.4 A

D 12.7 A