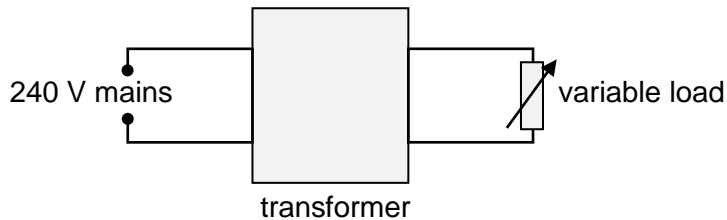27 An ideal transformer steps down the 240 V sinusoidal voltage from the mains to 12 V, which is then applied to a variable load.

What is the change in the current supplied by the mains when the resistance of the load is increased from 20 Ω to 50 Ω?

A Decrease from 30 mA to 12 mA.

B Increase from 12 mA to 30 mA.

C Decrease from 12 mA to 4.8 mA.

D Increase from 0.24 A to 0.60 A.