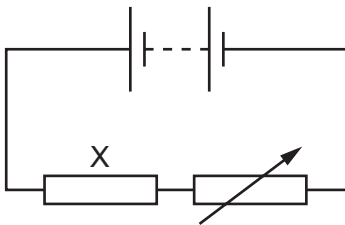


31 In the circuit shown, a fixed resistor X is connected in series with a battery and a variable resistor.



The power dissipated in resistor X is 7.2 W when a current of 3.0 A passes through it.

The variable resistor is adjusted so that the power dissipated in X increases by 50% .

What is the new current in the circuit?

A 2.4 A

B 3.7 A

C 4.5 A

D 14 A