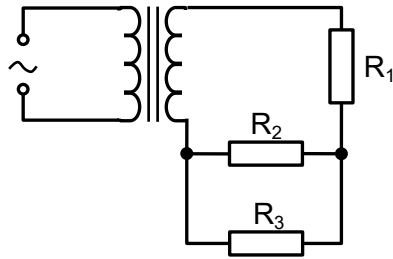


- 25** The secondary coil of a 2:1 step-down transformer is connected to three identical resistors R_1 , R_2 and R_3 each of resistance $80\ \Omega$ as shown.



The alternating supply to the primary coil delivers a peak voltage of 180 V .

What is the value of the average power dissipated in R_1 ?

- A** 11 W
- B** 23 W
- C** 45 W
- D** 90 W