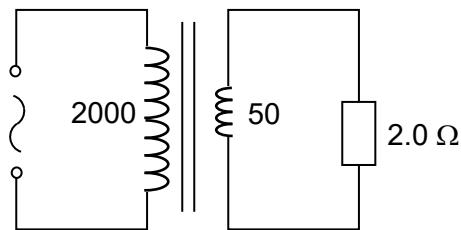


- 25** In the circuit shown, the **average** power dissipated across a $2.0\ \Omega$ resistor is 50 W . The turns ratio of the primary coil to secondary coil of the ideal transformer in the circuit is $2000 : 50$.



What is the peak potential difference across the primary coil of the ideal transformer?

- A** 20 V **B** 40 V **C** 400 V **D** 564 V