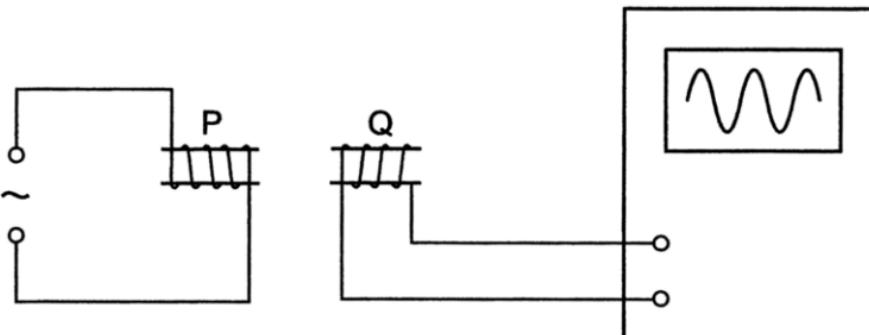


- 24 A coil P is connected to a 50 Hz alternating supply of constant peak voltage. Coil P lies close to a separate coil Q which is connected to the Y-input terminals of a cathode-ray oscilloscope. A sinusoidal trace appears on the screen of the oscilloscope.



Which change will cause the trace to have a larger amplitude while the number of cycles per unit time remains unchanged?

- A increase the frequency of the alternating supply
- B decrease the cross-sectional area of coil P
- C decrease the number of turns in coil Q
- D insert an iron core through both coils

- 25 When a varying voltage is connected across a resistor of resistance 8.0 Ω , the mean power