

NCERT/CBSE PHYSICS CLASS 12 textbook

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Answers to NCERT/CBSE PHYSICS Class 12(Class XII)textbook Exercise and Additional exercise

CHAPTER SIX

ELECTROMAGNETIC INDUCTION

EXERCISES

(For simplicity in numerical calculations, take $g = 10 \text{ m s}^{-2}$)

6.2 Use Lenz's law to determine the direction of induced current in the situations described by Fig. 6.19:

(a) A wire of irregular shape turning into a circular shape;

(b) A circular loop being deformed into a narrow straight wire.

FIGURE 6.19

6.2 (a) Along $adeb$. As flux through the surface increases during shape change so induced current produces flux in the opposite direction.

(b) Along $adcb$ as flux through the loop decreases $N = 15 \text{ turns per cm} = 15/100 \text{ turns per m}$.

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