

Even numbered answers Ch. 23

6. a) $-4 \times 10^{-5} \text{ Wb}$

b) $-8.0 \times 10^{-6} \text{ Wb}$

30. a) $B \cos(\theta) v d$

b) $I = \text{emf}/R = (Bvd \cos 30^\circ)/R$

c) current goes to left to produce clockwise current.

d) force on rod is $3B^2 d^2 v / (4R)$