

# Workbook



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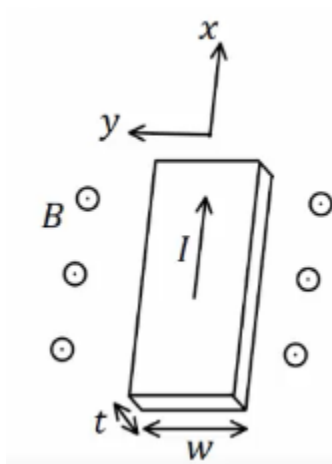
# Hall Effect

## Hall Effect

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### Questions

- 1) A current  $I$  flows along the length of a rectangular conductor, in the  $x$  direction. The width of the conductor is  $w$  and parallel to the  $y$  direction. The depth of the conductor is  $t$  and is parallel to the  $z$  direction. A uniform magnetic field  $B$  is present in the  $z$  direction. Calculate the size and direction of the voltage at the ends of the conductor. Assume that the electron density is given.



\*For the solution go see the video