

## Problem 19.1

A magnetic field in the x-direction.  
Determine the magnetic force on a  
charge moving in the following  
directions:

a.) the positive y-direction;

b.) the negative y-direction;

c.) the positive x-direction;



1.

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A magnetic field in the x-direction.  
Determine the magnetic force on a  
charge moving in the following  
directions:

a.) the positive y-direction;

According to  $F = qv \times B$ , into the  
page!

b.) the negative y-direction;

According to  $F = qv \times B$ , out of the page!

c.) the positive x-direction;

A charge moving along magnetic field lines will feel NO force.



2.