





b.) If you want the bar to move with a constant velocity, how large a force and in what direction would you have to apply to the bar to make that happen?

The induced current will interact with the external magnetic field as governed by:

F = i L x B

- = (.5 amps)(1.2 m)(2.5 tesla)
- = 1.5 newtons

The cross product, the force on the strip due to the current in the B-field moving through the strip will be to the left, therefore you will have to pull to the right.