**Physics 30 – Lesson 21**

**Motor Effect**

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1)

The Right Hand Rule (karate grip) is where fingers point in the direction of the magnetic field, thumb points in direction of the particle’s initial motion, and the palm indicates the direction of the force. The **force** is directed **to the left**.

x 



/2

2)



/2



x



I

west

north

3)



/4

4)



/4

5)



/5



6)

S

N

•



I

Using the Right Hand Rule, the fingers point in the direction of the magnetic field and the palm points in the direction of the force. The thumb indicates that the **current is flowing down the page**.

/2

7)

Only the length of wire perpendicular to the magnetic field results in a force.



/4



8)



/6

9)



/4

10)



/3

11)



checkmark

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