**Physics 30 – Lesson 26**

**Cathode Rays**

Possible 60 / 50

1)



/2

2)



/2

3)



/4

4)



/4

5)



/3

6)



/4

7)



/3

8)



/6

9)



/4

10)



/7

•



11)



/6



12)

•



/5

**Search for Anti-Matter**



1.00m



A) charge on particle

- the particle has a negative charge (left hand rule works)

B) Find charge to mass ratio

- a good, simple approximation is to treat the particle as a projectile

Bonus

/10



force magnetic = net force



-testing different q/m values for different particles we find that for an alpha particle



So, this particle is an anti-alpha particle (negative charge)