

16-7-21 - HW

1) i) a) Some kind of charged particle

ii) b) Only magnetic force

iii) (a)

iv) (c & d)

v) a) $v_{max} = qBR/m$

vi) (a)

2) i) a) It's an electricity researcher Luigi Galvani

ii) (b)

iii) (a) $S_i = \frac{Q}{C} = \frac{NAB}{C}$

iv) (c) never changes the voltage sensitivity

v) (a) $i \propto \left(\frac{C}{BNA} \right) \theta$

vi) (b) independent of θ

3 $i \propto (B)$

ii) $A \dots$

iii) A

iv) D

v) B

vi) A

4 i) (a) a volt meter is connected in parallel with current through it is negligible.

ii) (c) infinity

iii) (a) more

iv) (a) $\left(\frac{C}{BNA} \right) \theta$

v) (a) $S_i = \frac{Q}{C} = \frac{NAB}{C}$