

普通物理實驗報告

實驗名稱： _____

班級：

組別：

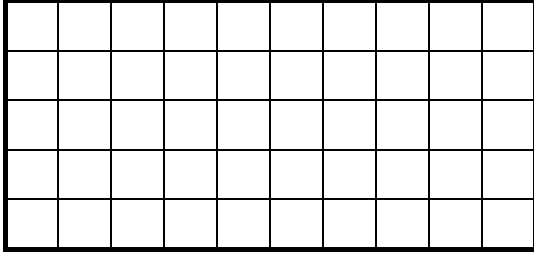
組員姓名：	_____	_____	_____
基本分數 50			
實驗數值 20			
理論數值 10			
圖表 10			
問題 10			
其他評分			
總評分：			

【記錄】

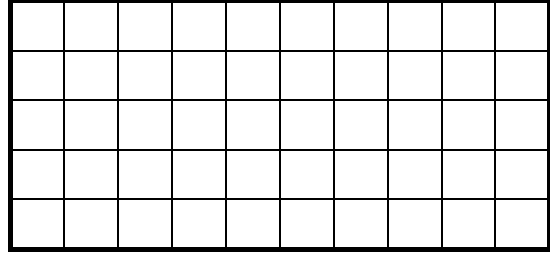
一、電子在均勻電場中的運動： $V_a = 150V$

1. $V_d = 40V$

偏轉方向上正



偏轉方向下正

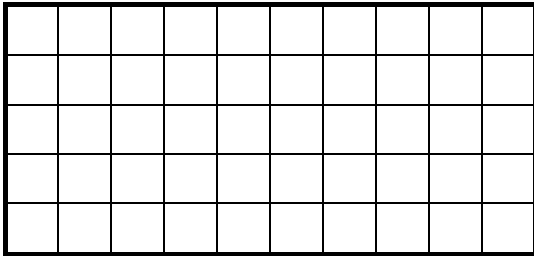


$$\phi_{\text{實驗}} =$$

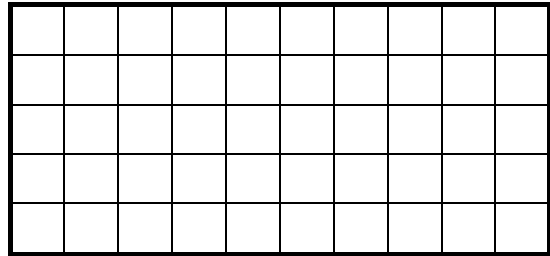
$$\phi_{\text{理論}} = \tan^{-1} \frac{V_d L}{2dV_a} =$$

2. $V_d = 80V$

偏轉方向上正



偏轉方向下正

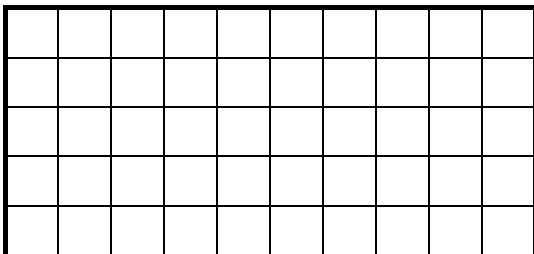


$$\phi_{\text{實驗}} =$$

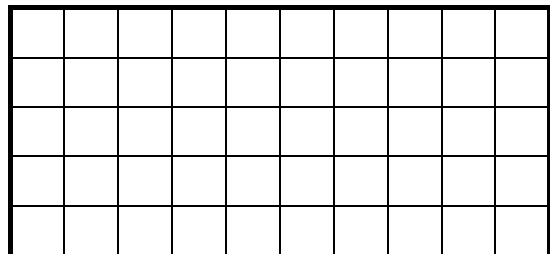
$$\phi_{\text{理論}} = \tan^{-1} \frac{V_d L}{2dV_a} =$$

3. $V_d = 120V$

偏轉方向上正



偏轉方向下正



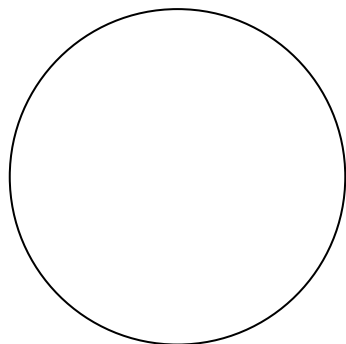
$$\phi_{\text{實驗}} =$$

$$\phi_{\text{理論}} = \tan^{-1} \frac{V_d L}{2dV_a} =$$

二、電子在均勻磁場中的運動：

1. $V_a = 150V$

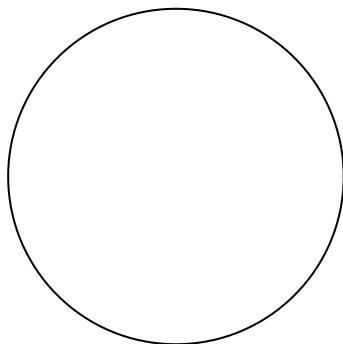
A. $I = 0.8A$



$r =$

$e/m_{\text{實驗}} =$

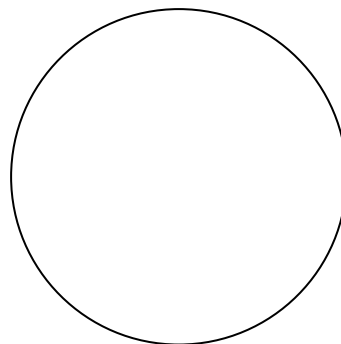
B. $I = 1.0A$



$r =$

$e/m_{\text{實驗}} =$

C. $I = 1.2A$

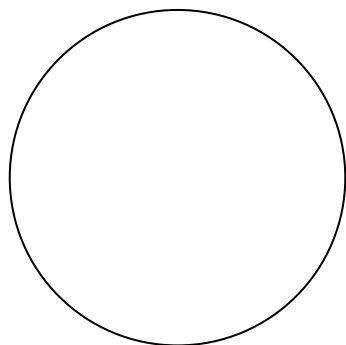


$r =$

$e/m_{\text{實驗}} =$

2. $V_a = 180V$

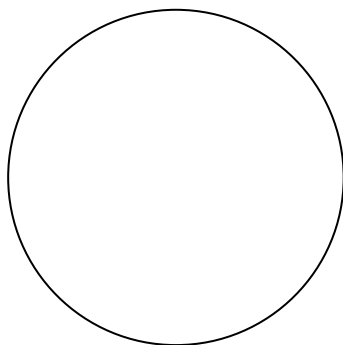
A. $I = 0.8A$



$r =$

$e/m_{\text{實驗}} =$

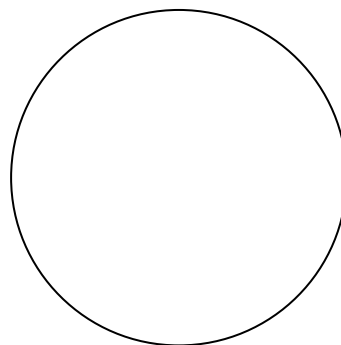
B. $I = 1.0A$



$r =$

$e/m_{\text{實驗}} =$

C. $I = 1.2A$

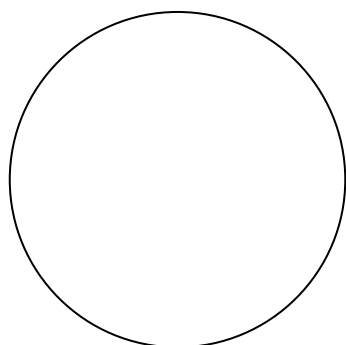


$r =$

$e/m_{\text{實驗}} =$

3. $V_a = 210V$

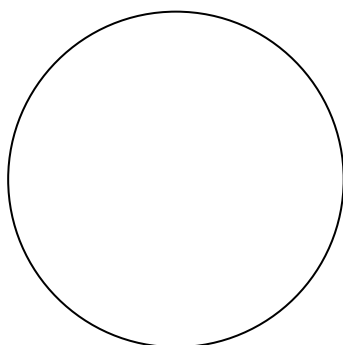
A. $I = 0.8A$



$r =$

$e/m_{\text{實驗}} =$

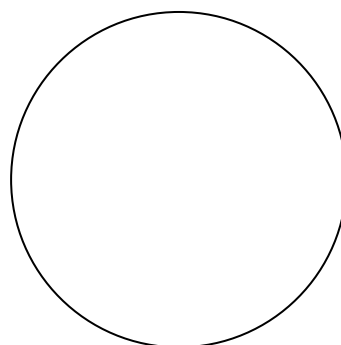
B. $I = 1.0A$



$r =$

$e/m_{\text{實驗}} =$

C. $I = 1.2A$

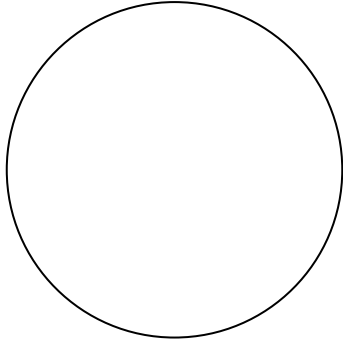


$r =$

$e/m_{\text{實驗}} =$

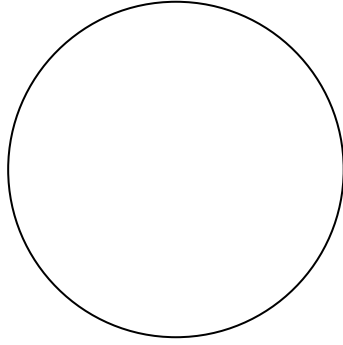
4. $V_a = 150V$ 、 $I = 1.5A$

A. 90°



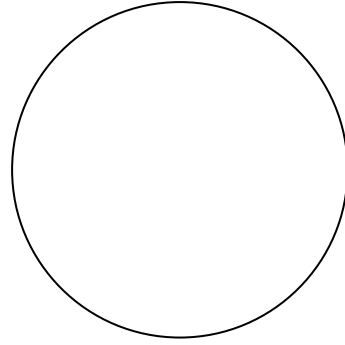
螺旋數：

B. 95° (偏轉 5°)



螺旋數：

C. 100° (偏轉 10°)



螺旋數：

【討論】