

# 普通物理實驗報告

實驗名稱： \_\_\_\_\_

班級：

組別：

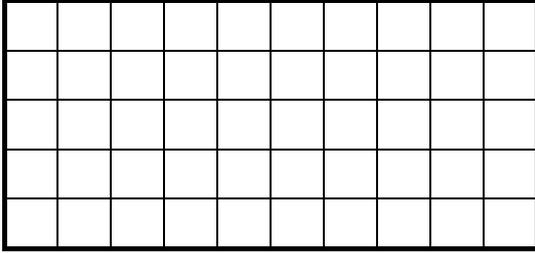
組員姓名：	_____	_____	_____
基本分數 50			
實驗數值 20			
理論數值 10			
圖表 10			
問題 10			
其他評分			
總評分：			

**【記錄】**

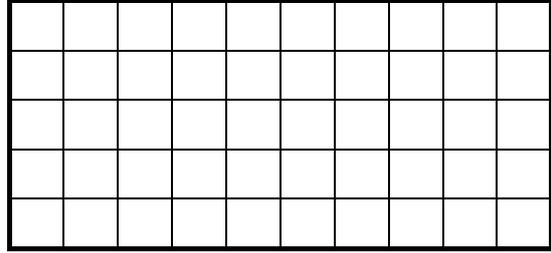
一、電子在均勻電場中的運動： $V_a = 150V$

1.  $V_d = 40V$

偏轉方向上正



偏轉方向下正

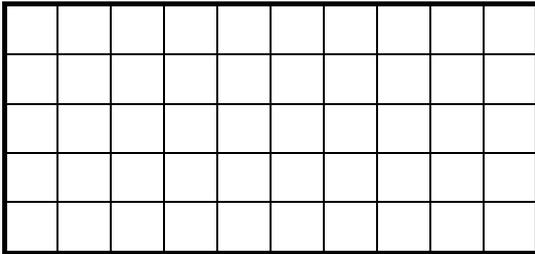


$\phi_{\text{實驗}} =$

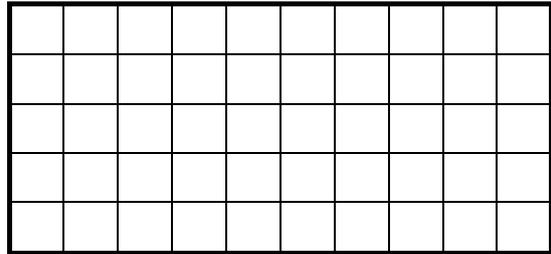
$$\phi_{\text{理論}} = \tan^{-1} \frac{V_d L}{2dV_a} =$$

2.  $V_d = 80V$

偏轉方向上正



偏轉方向下正

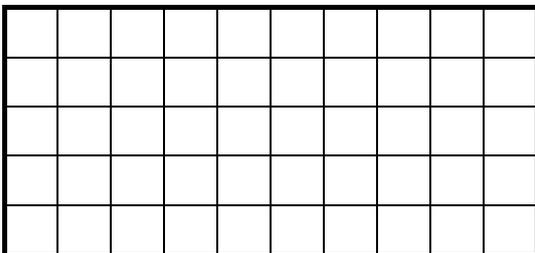


$\phi_{\text{實驗}} =$

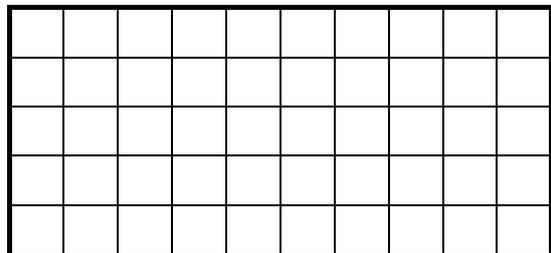
$$\phi_{\text{理論}} = \tan^{-1} \frac{V_d L}{2dV_a} =$$

3.  $V_d = 120V$

偏轉方向上正



偏轉方向下正



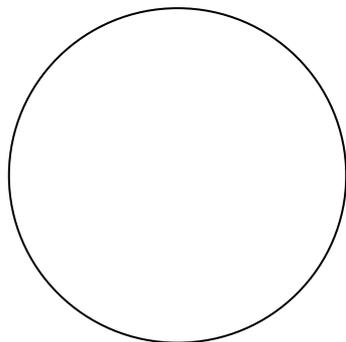
$\phi_{\text{實驗}} =$

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

二、電子在均勻磁場中的運動：

1.  $V_a = 150V$

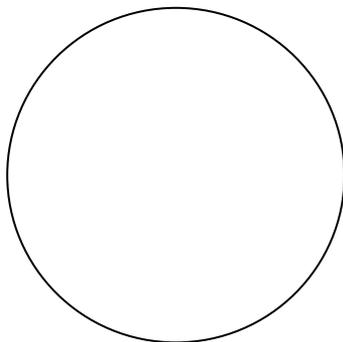
A.  $I = 0.8A$



$r =$

$e/m_{\text{實驗}} =$

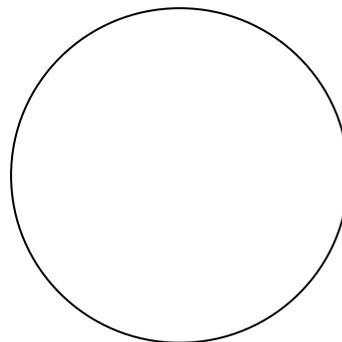
B.  $I = 1.0A$



$r =$

$e/m_{\text{實驗}} =$

C.  $I = 1.2A$

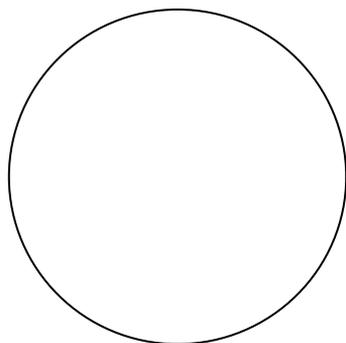


$r =$

$e/m_{\text{實驗}} =$

2.  $V_a = 180V$

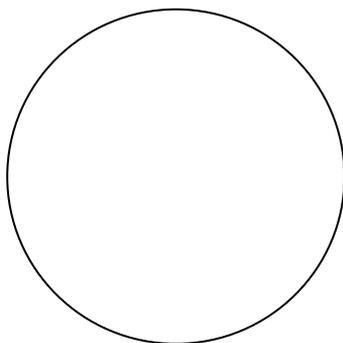
A.  $I = 0.8A$



$r =$

$e/m_{\text{實驗}} =$

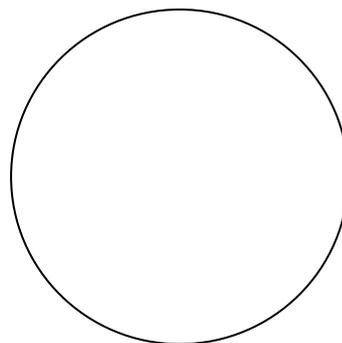
B.  $I = 1.0A$



$r =$

$e/m_{\text{實驗}} =$

C.  $I = 1.2A$

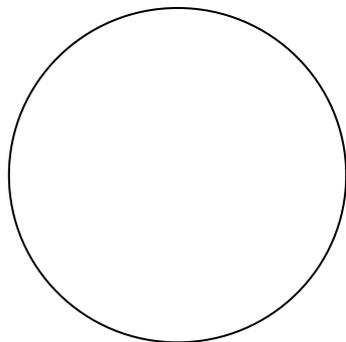


$r =$

$e/m_{\text{實驗}} =$

3.  $V_a = 210V$

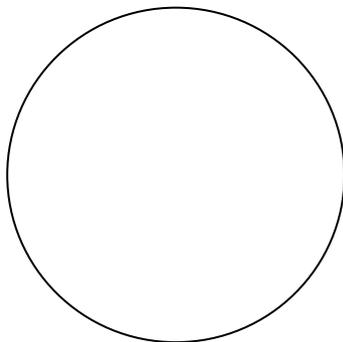
A.  $I = 0.8A$



$r =$

$e/m_{\text{實驗}} =$

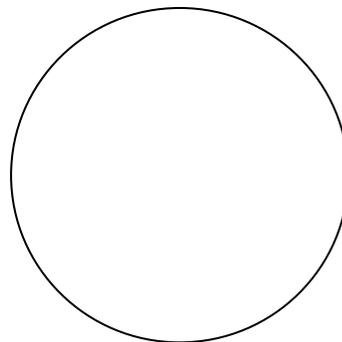
B.  $I = 1.0A$



$r =$

$e/m_{\text{實驗}} =$

C.  $I = 1.2A$

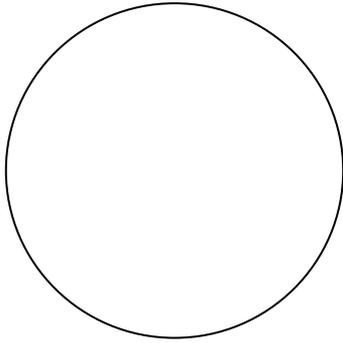


$r =$

$e/m_{\text{實驗}} =$

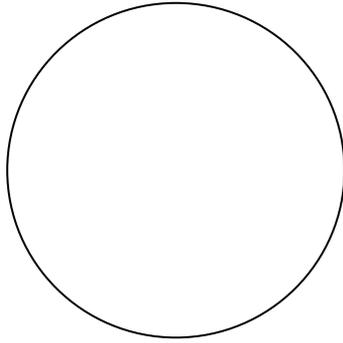
4.  $V_a = 150V$ 、 $I = 1.5A$

A.  $90^\circ$



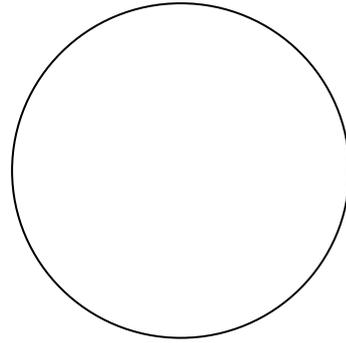
螺旋數：

B.  $95^\circ$  (偏轉  $5^\circ$ )



螺旋數：

C.  $100^\circ$  (偏轉  $10^\circ$ )



螺旋數：

## 【討論】