

## Thickness Measurements Using Birefringence (10 points)

### Part A. Measurement System Setup (2.3 points)

**A.1** (0.3pt)

$$\lambda =$$

$$\theta =$$

**A.2** (0.2pt)

$$\theta =$$

**A.3** (0.8pt)

$$\theta =$$

$$\lambda_{\text{Peak}} =$$

$$\alpha =$$

**A.4** (0.3pt)

$$\varphi_{\perp} =$$

$$\varphi_{\parallel} =$$

**A.5** (0.2pt)

$$I_{\text{Offset } \perp} =$$

$$I_{\text{Offset } \parallel} =$$

**A.6** (0.5pt)

$$I_{\perp} =$$

$$I_{\parallel} =$$

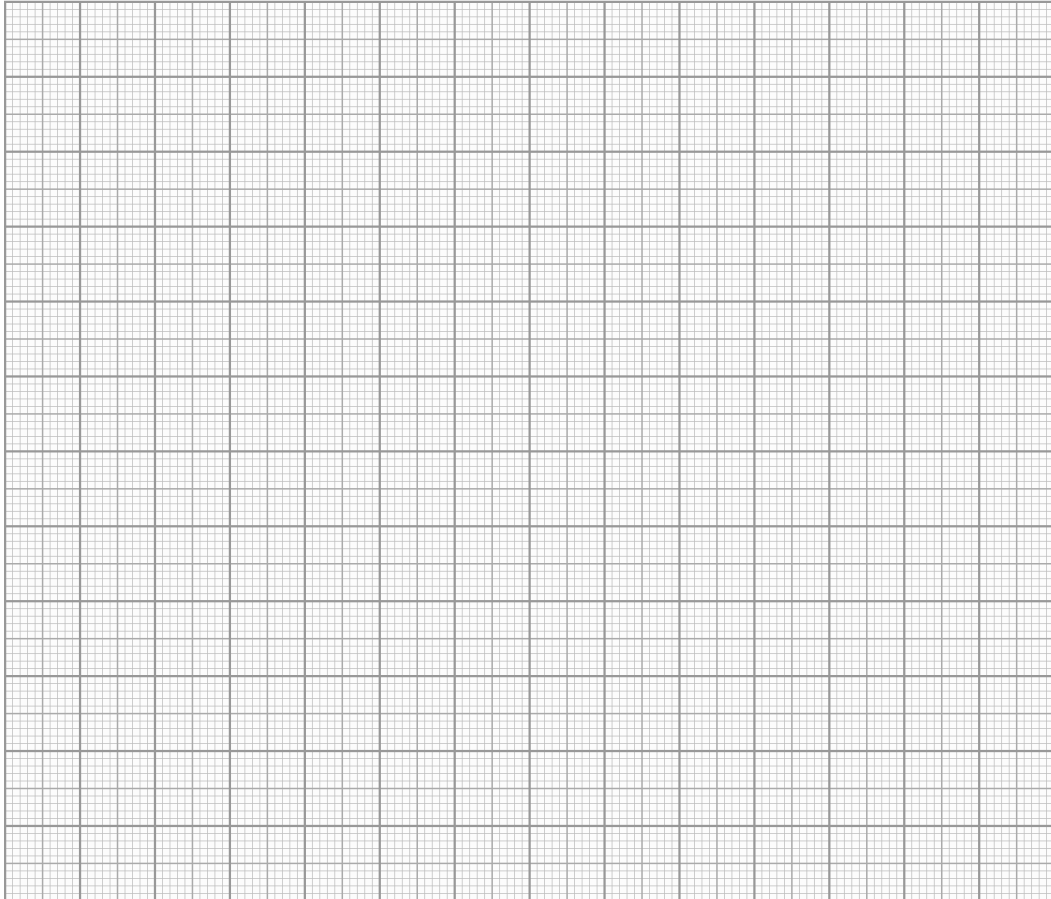








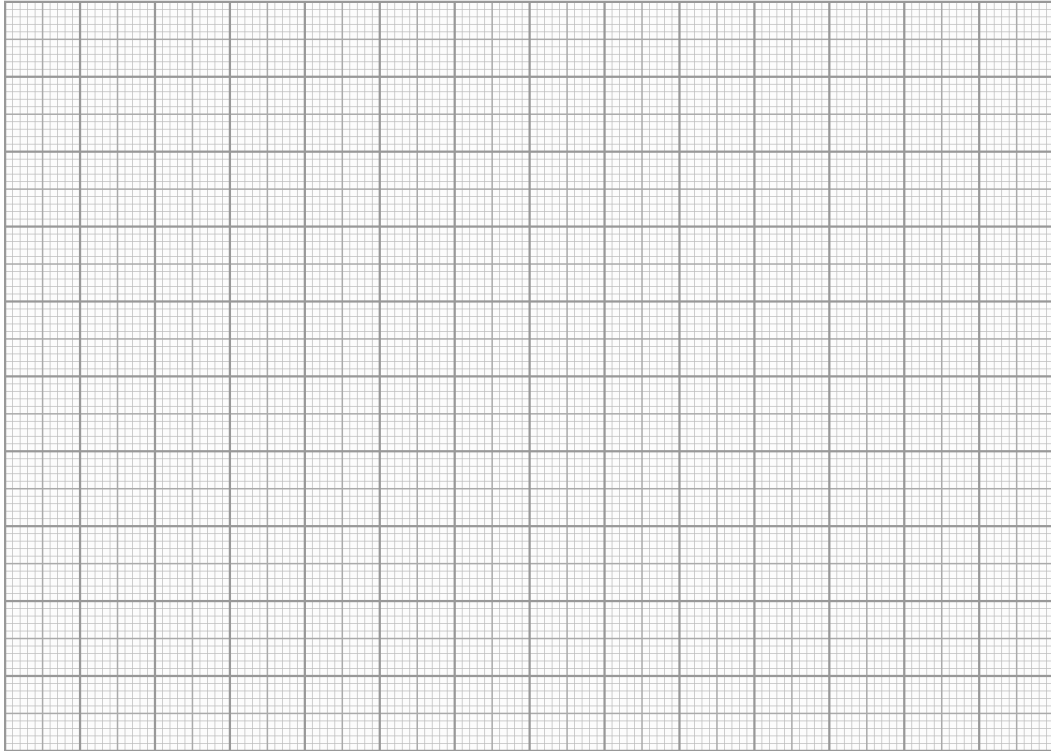
**B.2** (1.0pt)



**B.3** (0.2pt)

$\Delta\lambda_{\text{FWHM}} =$

**B.4 (1.5pt)**





**Part C. Analyses of Measured Results (3.0 points)**

**C.1** (1.5pt)

$\lambda =$

$m =$

**C.2** (1.5pt)

$L =$