LABORATORY REPORT SHEET

Name	Date	Lab Section		
Calibration of the monochron	nator			
Hg		Не		
λ (nm)				
x (cm)				
Trial 1				
Trial 2				
Trial 3				
Trial 4				
Mean x (cm)				
Construct a calibration curve for straight-line fit to your data: (F				
Equation of best-fit line:				

Use this equation to determine the $\boldsymbol{\lambda}$ for the emission lines in the Balmer series.

LABORATORY REPORT SHEET (2)

Name				Date	Lab Section
The Balm	er series				
Color	Violet	Turquois	Red		
x (cm) Trial 1				-	
Trial 2				_	
Trial 3		_		-	
Trial 4				-	
Mean x (cm))	_		-	
λ (nm)				_	
The Rydb	erg Consta	ant, R_H			
ΔΕ				-	
$\frac{1}{n_i^2}$			_		
•	a linear gra	aph of Δ E vs	$\frac{1}{x^2}$. Deter	rmine the equati	on for the best-fit line of
this graph.			n_{i}		
Equation o	of best-fit li	ne:			
Rydberg C	Constant (R_{I}	(include unit	s):		
(Be sure to	include th	is graph in whe	en you hand	-in your laborate	ory report sheet