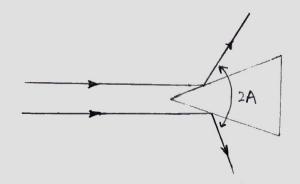
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Expt.	NameCarry constact Page No
-	EXPERIMENT - 1
	stim:
	To determine couchy's constant of the given pricer.
-	Apparatus:
-	spechometer, magnifying glas, grisin; mercury vapour
	lamp prisin clamp
	Theory:
	Cauchy's Equation is an empirical relationship the the
	sufractive Endex and wavelength of light for a particular
	Cansparent meterial. It is named for the mathematican
	Angustin - Louis Cauchy, general form:
	$n(\lambda) = A + B/2 + C/4 +$
	If the repractive Endices n1 and n2 for any two wavelength
	2, and 22 are determined by spechameter the Cauchy's
	constant A and B can be calculated.
	# · · · · · · · · · · · · · · · · · · ·
-	Proxedure:
1.	Focus the telescope on distant objects of when focus in convect, start button is activated, click it.
2.	when focus in convect, start button is activated, click it.
3.	Switch on the light source.
4.	focus on the stit focus width stider.
4	
+	
2	Teacher's Signature:
	·

Teacher's Signature:



			V ₂			
	MS	Vs	TOTAL	MS	Vs	TOTAL
light from one face	289-5	(0	289°401	110	10	110°10′
light from another face	50	40	50°40'	229.5		229°30'

calculation:

$$2A = V_1 - V_1' = 360 - (289^{\circ}40' - 50^{\circ}40')$$
 $2A = V_2 - V_2' = 229^{\circ}30' - 110^{\circ}10'$
 $2A = 121$
 $A = 60^{\circ}30'$
 $A = 59^{\circ}40$

$$A = 119^{\circ}20'$$
 $A = 59^{\circ}40$

Average
$$A = 60^{\circ}30' + 59^{\circ}40' = 60^{\circ}05'$$

angle of prism = $60^{\circ}05'$.

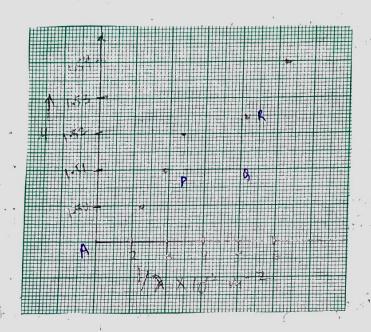
Spector	Readinini	ng at	1 Street 1941 7 Reading		34x Bifferen	n	1/22
colors	Vı	V2_	Vt	V2	(mean)		(X/9, M-5)
	1.00			· · · · · · · · · · · · · · · · · · ·		1 1 - x 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.5
Red	7012	250°11'	109'03'	289°041	38°52 '	1.50	15 P 2-36
Yellow	69°44'	249°32'	109°031	2898041	39°251	1.51	2.988
Green	69°33.1	249°31'	109,°03/	289041	39°36	1.520	3,353
Blue	69°02'	249011	109'031	289°04!	39°57"	··· 1.5245	5.265
Indigo	68°36	248351	109031	289041	40°28	1.53	6-103
						1	150

Calculation:

W. W. B. Barre

$$4 \text{ Mod} = 8 \text{ Min} \left(\frac{60^{\circ}/02 + 38^{\circ}52!}{2} \right) = \frac{100 \cdot 102}{2} = \frac{0.75983}{0.50024} = 1.542$$

Graph (4 vs 1/22)



$$B = QR/PQ = \%, \frac{1.52 - 1.51}{2.988 - 2.366} = 0.0160$$

The way the strain of a spoke of the doc

which you man the rest with the mount

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Observations:	
Least count	of spectrometer = N = (1).
: N= 1 Msb=	$\left(\frac{10}{20}\right) = \left(\frac{1}{2}\right)^{\circ}$
Angle of	prisu = 60°02/
Cauchy's	Constant, $A = 1.50$. B = 0.0160.
Aesult:	
Cauchy's	formula has been verified.
	Teacher's Signature: