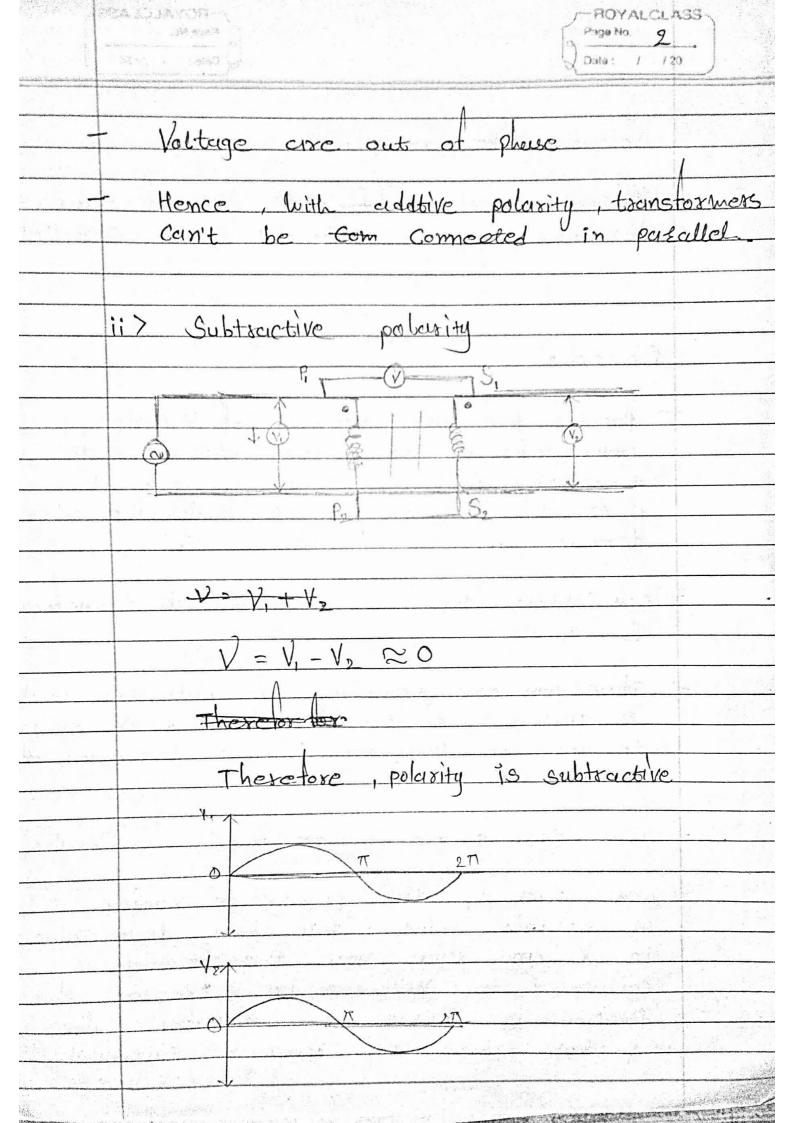
EXP-4 AIM: To perform polarity test of a single phase transformes Apposatus & Specifications: 1> 1- 0 Transformer: 230 V 230V, 1KA, 50H2 27 1-0 Variae: 0-300 V, 15-A 3> Voltmeter : 0-300 V Circuit Diagram : Sa 230 J 930 V 1- \$ x'mer



₩ Date : / /20	
Cate: / /20	diagram physical
- Valtage cire in phase	
Hence with subtractive polarity, trans- tormers can be connected in parallel	
	× .
Procedure:	
transformer (p,) and Similarly join the other terminal of transformer (p,) and Similarly join the other terminal of the transformer (P2)	
-> Now Shoot the two terminal of transforme P2 & S2	Υ
Then join one terminal of Valtmeter with  p terminal of transformer and the other  terminal of Valtmeter with 3, terminal of  transformer	
-> Now turn on the power supply for Varian	The train
Now turn up the power of Variac to  a certain value & note down that value	1
in V, and then note the readings Obitainted in Valtmeter in V. Repeat this	+
proess for some more different Values	1
9 note down the readings obtained.	

1	
+>	Now if the values of AV obtained from
-	-subtraction of V, & Vz, is
_	Zero then the polarity is subtractive
	It the Value of V obtained from
_	addition and 1,8 % is
	twice the value of 14, then the
	polarity is addive

no observation tubles -

SY,vo	Principy	Scondury	valtmeter	Romarks
	Y (V)	Y <sub>2</sub> (Y)	V(Y)	
1	20	20	0	Subtra cotive
				Palarity
	130	30		Subtrative
4 1 2		19 35 35 41	4	Palcerity
	50	50	100	Mad it ive
and the same of th		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		120 hurity
			1 100	
	The state of the s	The administration of the second		

Conclusions:

-> In Additive Polarity, transformer cannot be Connected in parallel & in subtractive polarity transformer can be connected in Parallel connection.