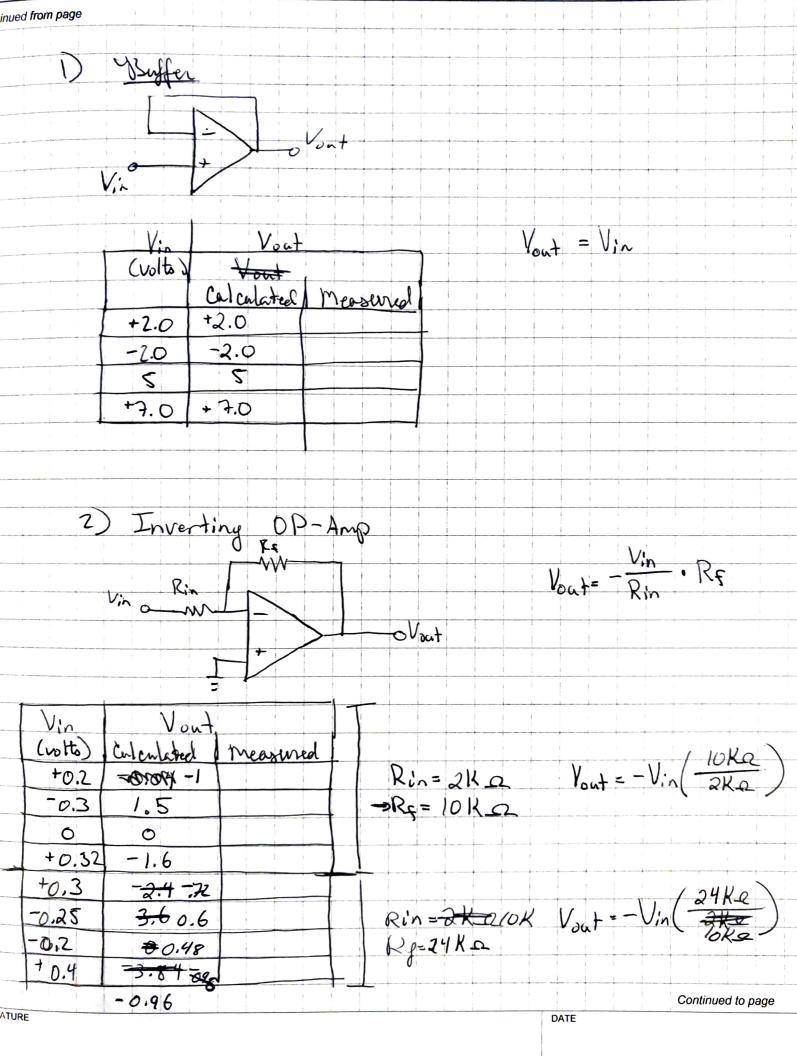
Lat 2 probat - part of the pre-best is to do all calculations of the too lat. Jettes of each section will be made now. then nearwed data will be filled in. The purson of this lat is to indestand operational amplifier (OPAnp) datasheets and to construct for four types of openy ceremits i) A Beffor 2) a comparator 3) an christing op-Amp 4) a surrainy op-amp Parameter Specifical volus Trivial Max units Input offset voltage, Vos. 10 dyset has current, Iwas 50 PA 200 Input effect current, Ios 25 100 PA CWBB, De0 100 dB Slew rate Tools Continued to page DATE

LOSED TO AND UNDERSTOO



Continued from page

TITLE

3) Summing	Amp	Rs.
V. W.] Yout	+
V V2 V	Culculated	Measured
+1+1+1	3 v	
- - +	-14	
-1-1+2	0-188	1
+3 -3 -3	31370	
-2 71 -2	-3V	1 1 1

Vo = Ixx · Rf

R, , R2 , Rn = 20 K12

Ixx = & In

12 = 20 K.sz

$$I_{R_1} = -\frac{1}{20R} = -0.05 \text{ nA}$$

SIGNATURE

20

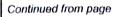
DATE

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DATE

PROPRIETARY INFORMATION

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$$|I_{K1}| = \frac{3}{20K} = \frac{3}{6.15mA}$$

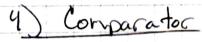
$$I_{R2} = \frac{3}{20K} = \frac{3}{6.15mA}$$

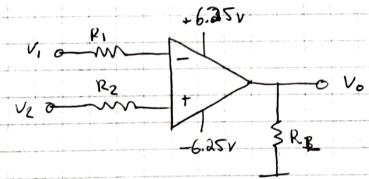
$$I_{R3} = \frac{3}{20K} = \frac{3}{6.15mA}$$

$$I_{R_1} = \frac{1}{20K} \cdot \frac{1}{20R} \cdot \frac{1}{20R}$$

$$I_{R_2} = \frac{1}{20K} \cdot \frac{1}{20R} \cdot \frac{1}{20R} \cdot \frac{1}{20R}$$

$$I_{R_3} = \frac{1}{20R} \cdot \frac{1}{20R} \cdot \frac{1}{20R} \cdot \frac{1}{20R}$$





R	= F	? ₂ =	10K	Ω
 RL	=	OK.	α	
	1	1		

T	- \	atot		
In	1 .	out put		
(C-)	(4)	Calcutatel	measured	
+4	+1	-5v		
+2	+3	5v		
11	0	-5 V		
124	+4	0		
0	+1	5V		
+3	142	-5V	1	