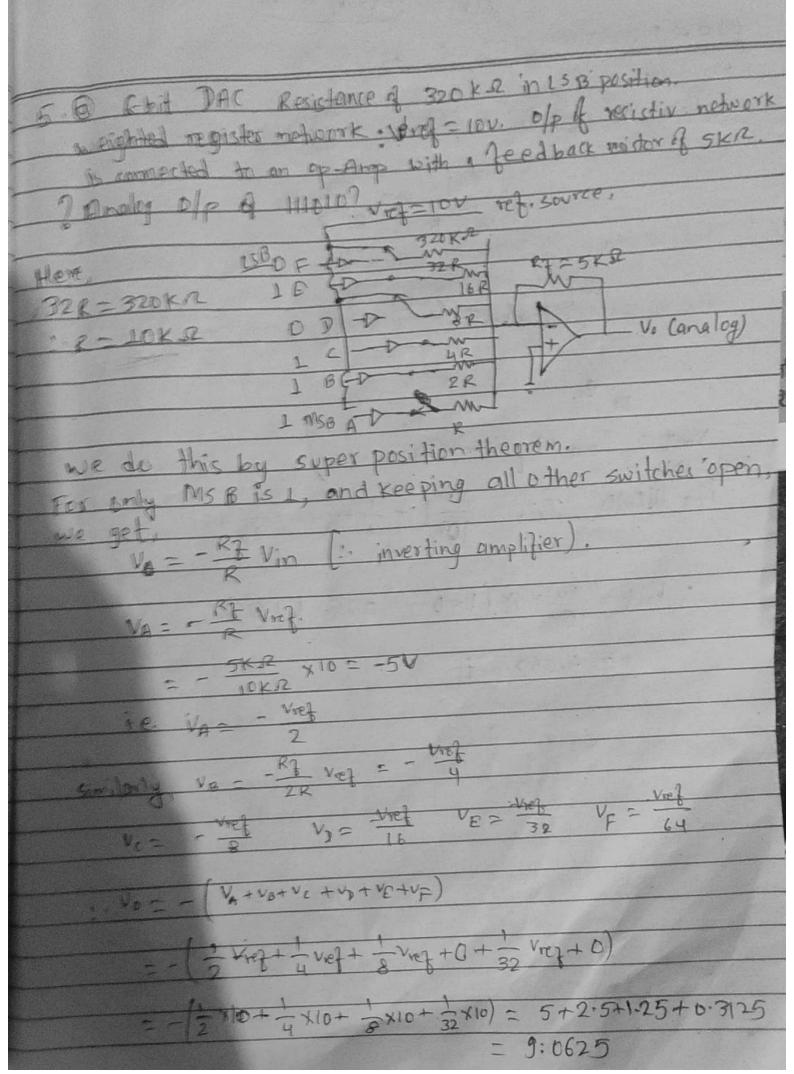
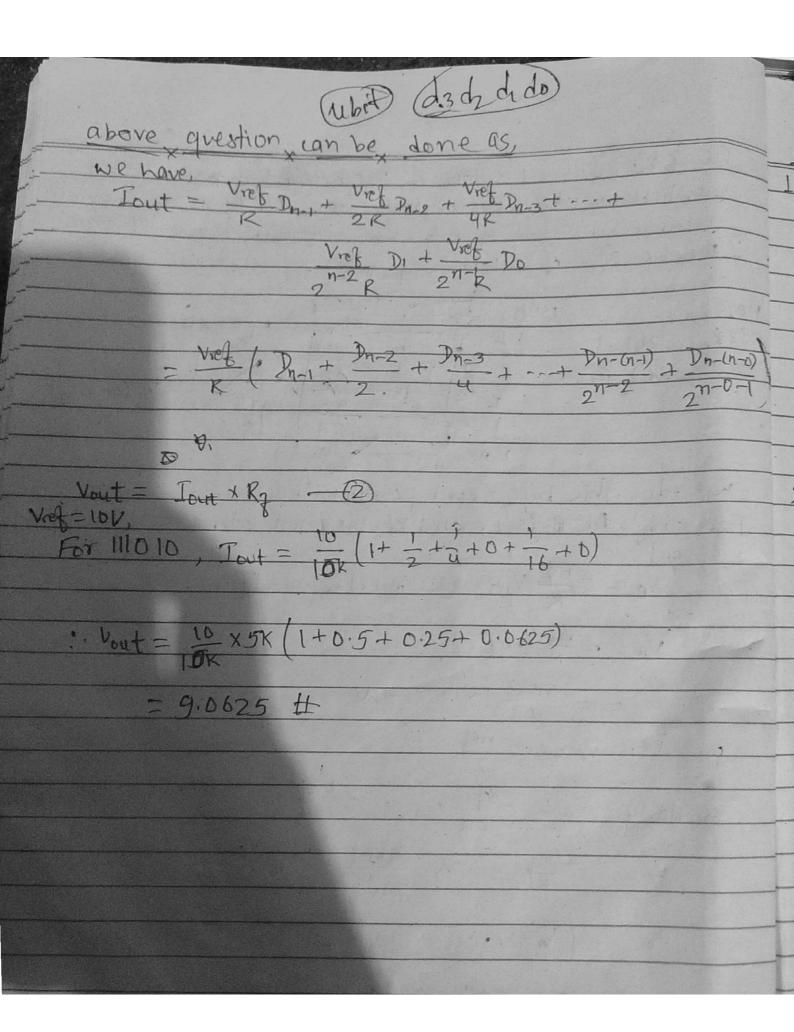
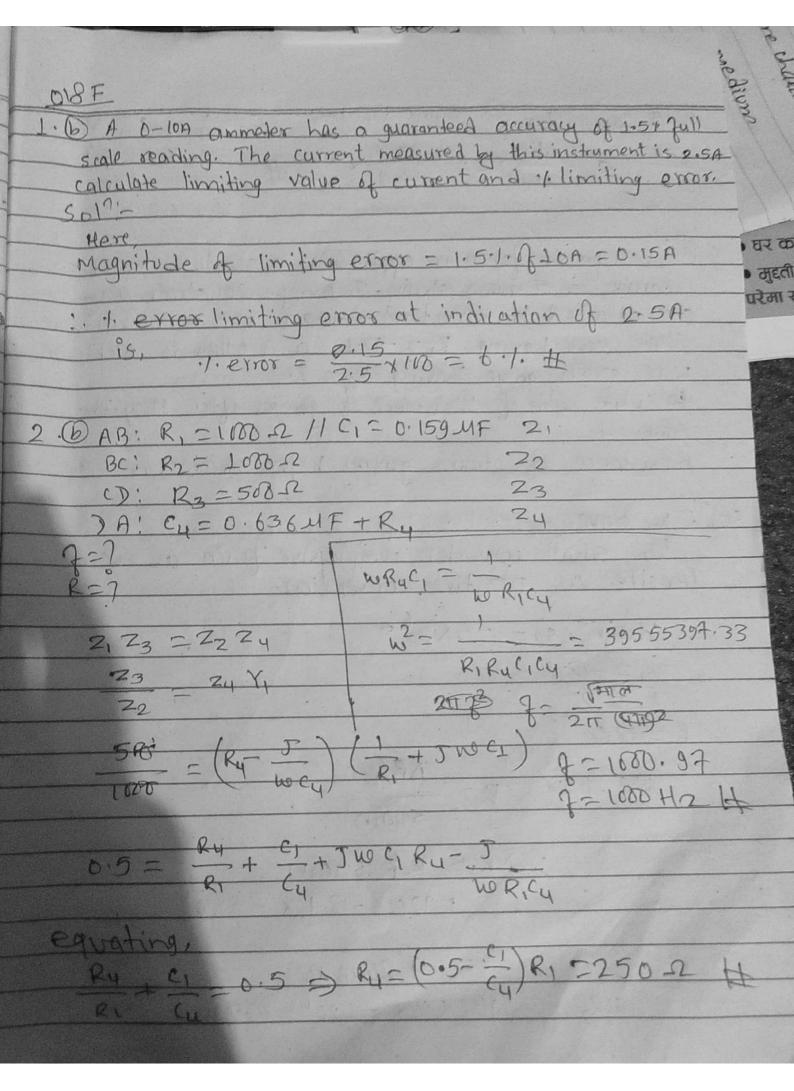


3 (A) A cana	Jan Land	N. a. F. a. F.	al dinabroans
of area for	and transducer	nes and in	parts dipphragms =
A TOOKALLES	phone andiel	by a distance of	3.5 mm A pressure
a deployion of	Ohma stla	to the top dia	phraym produces 370 pf when
IN DISCOURT	Lapplie LA	La diapter	Du ) conquitance
after appl"	& pressure.	the estap may may	Find capacitance
To prove the second sec	01		
Here,			
T - A - Thereway	50 mm = 750x	15 m2	
a curtaine	SET 106 (91)=	3.5mm	
deflection	d = 0.8mm		
d - 1	ce bet two plate	s after pressure	applied is,
Marie Control of the	-2 = 3.5-0 apacitance o	ILL PROPERTY	
Copacitance	after preco	2 5 10 PF	40
	a pieso	166-1	
C= 2	7 0		
			181
for no	ressure applie	4,	
6-	en o		
Alter moss	11 1101		
bir kirazni	e applied,		
c1=	CA		
	32		
c' -	4		
	42		
		-12-0	
6'=	x 970XI	o F	

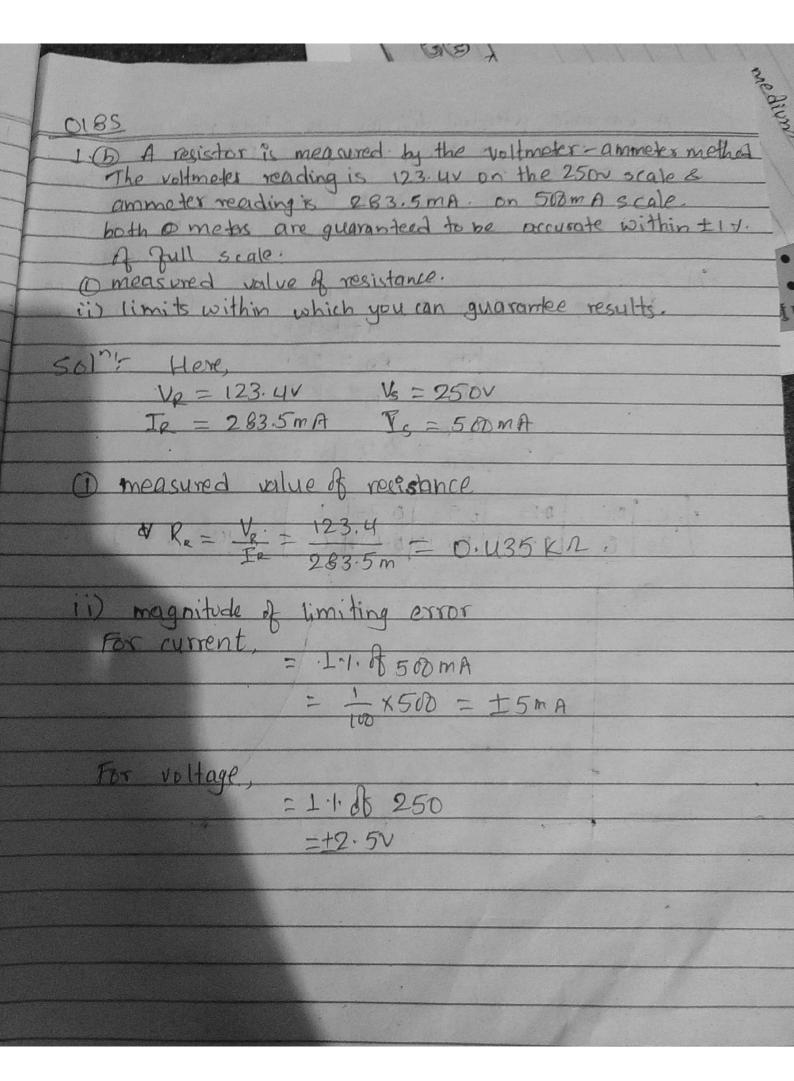


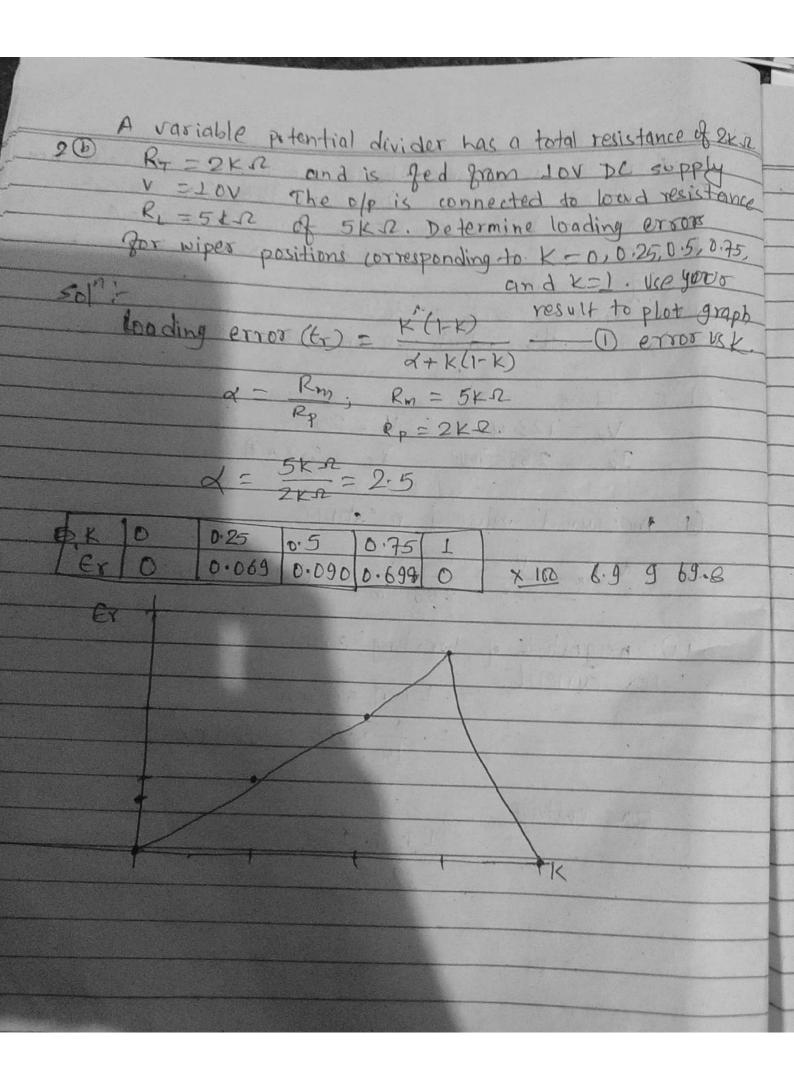
Scanned by CamScanner

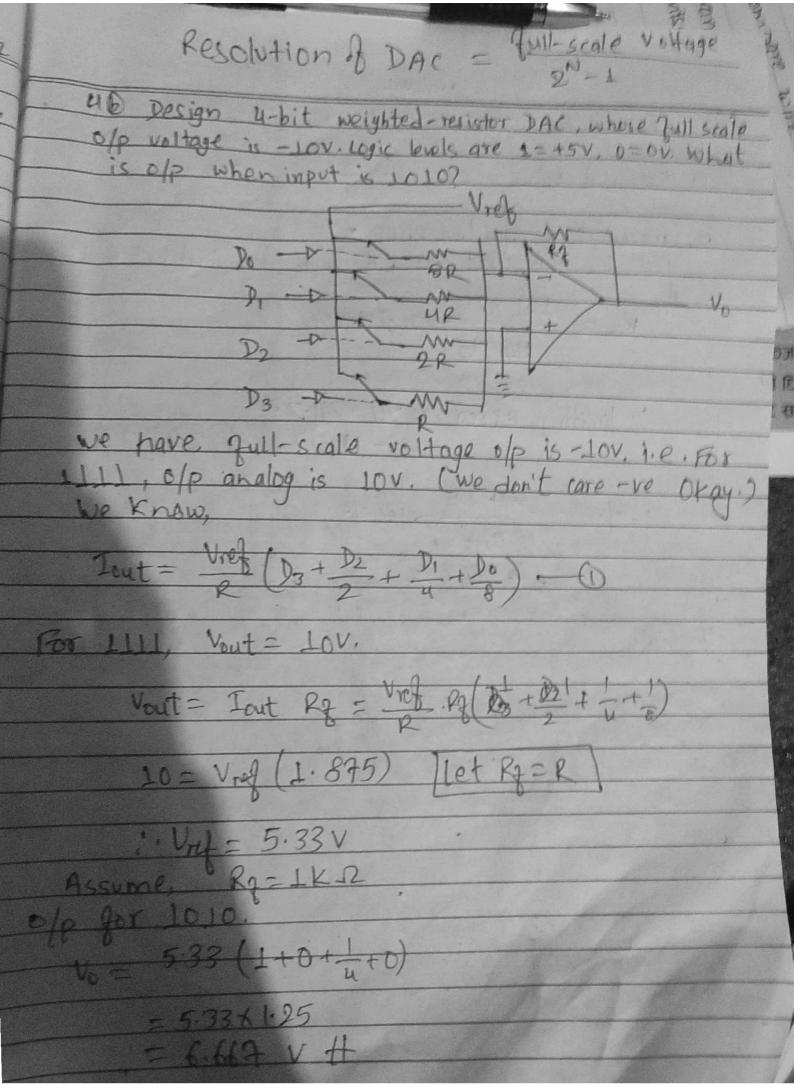


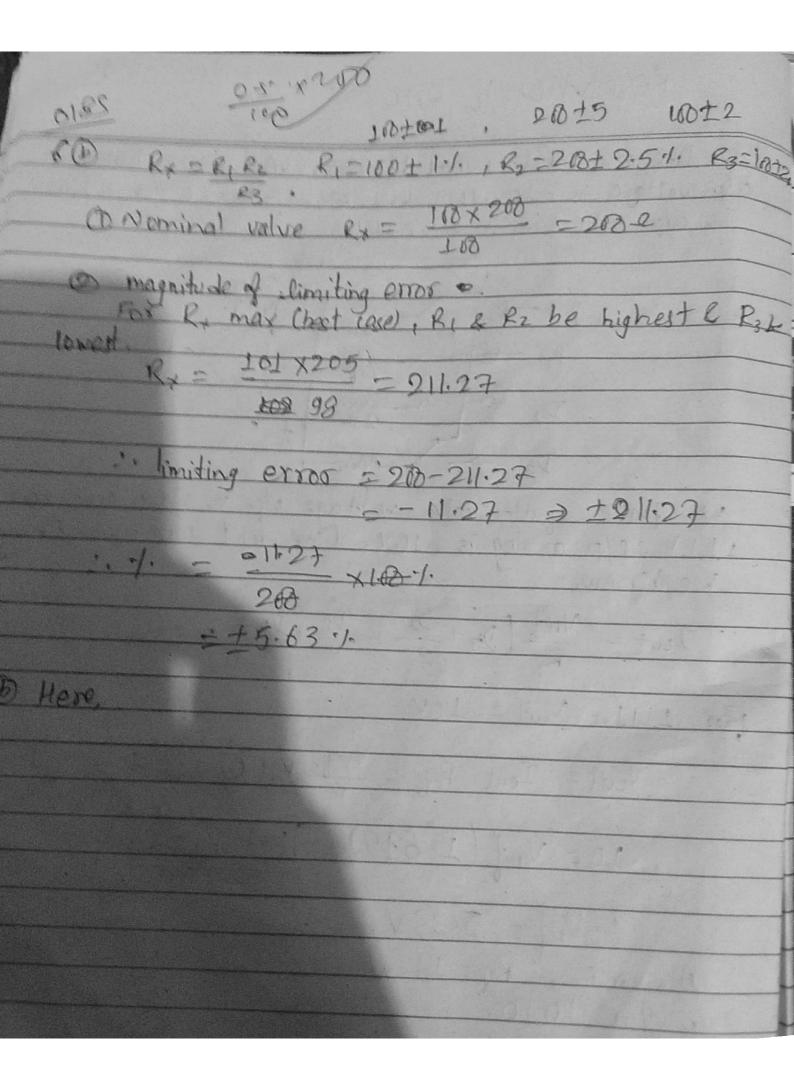


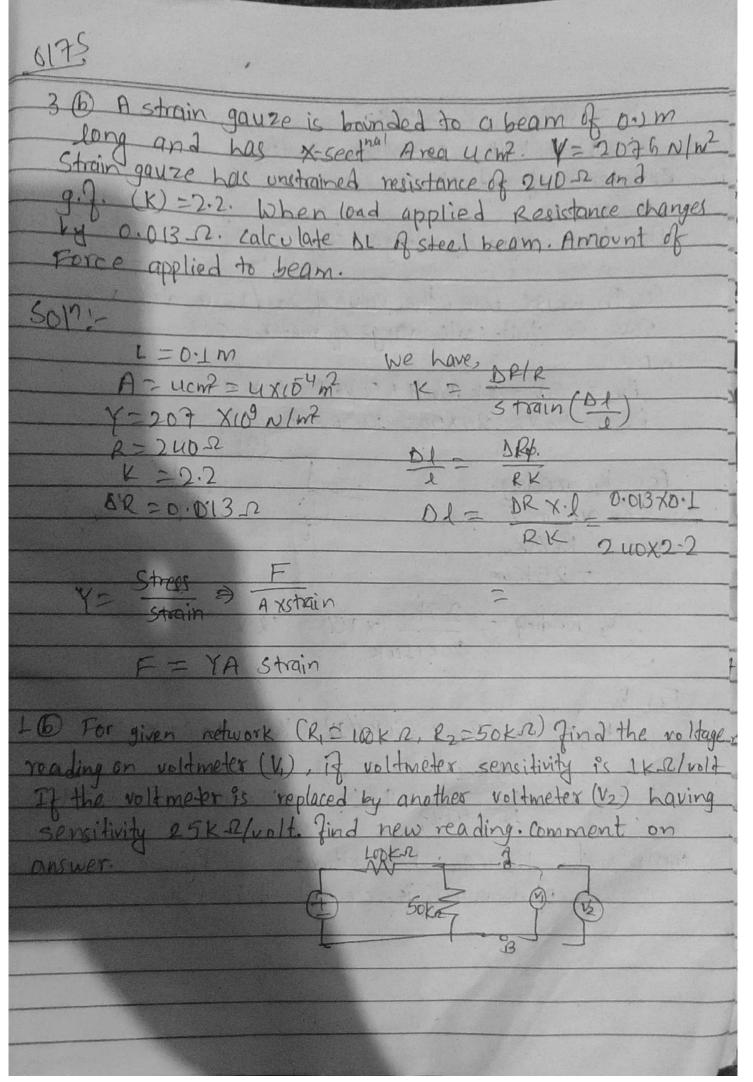
30 capacitor at some problem $C = \frac{CA}{dt}$ $C' = \frac{CA}{dt}$ And $C' = \frac{dt}{dt}$ $XC = \frac{3.5}{2.9}$ $XC = \frac{4}{2.9}$
strain is 5 micro strain. Two separate strain gauge  are attached to structural member, one is nickel wire  strain gauge Laving K = -12.1 and other is nichrome  while strain gauge having K = 2.  calculate value of Raistance of gauges after they are  Resistance of strain gauges hefor strained is 1202.
We shall consider compressive force as -ve &  Tensile as positive convention.  Strain (s) = -5×10 6  K = -12-1  K = 2
DE have, K = DR/R  Strain  : DR = RK strain  = 120x - 12.1 x - 5x106  - 7.26 m 2  120x 2 x - 5x106 1.2 m 2

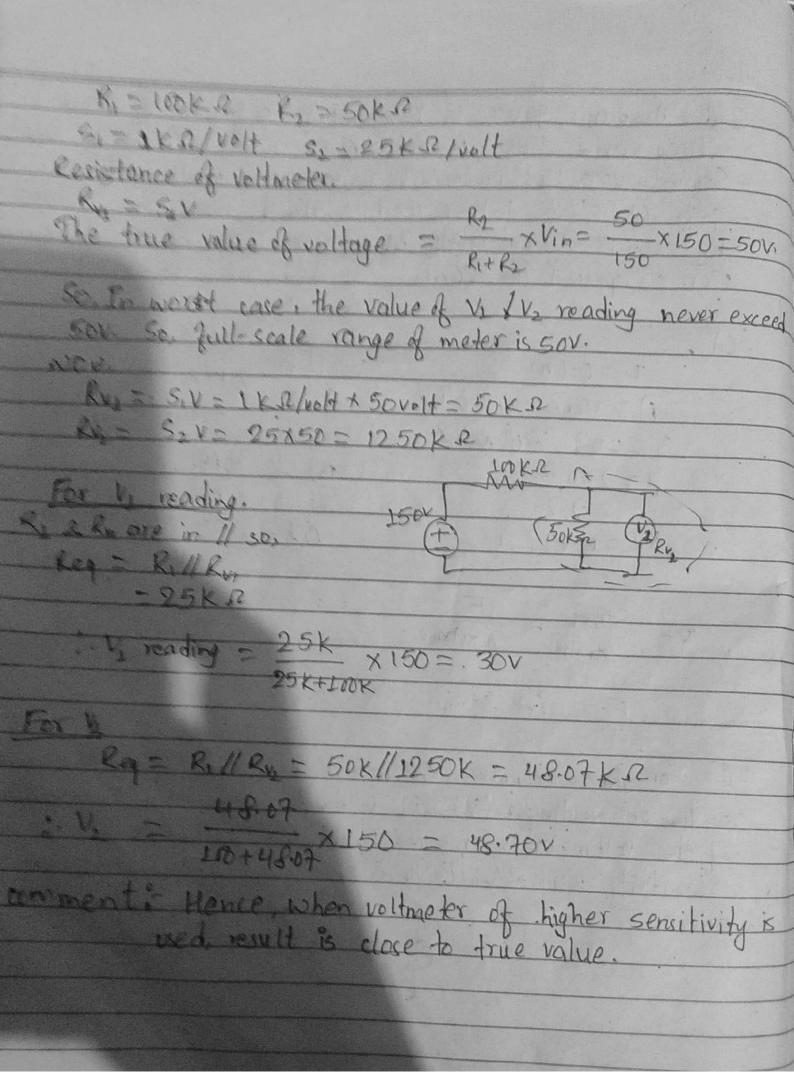












017E 50 OR The ofe of an LUDT's connected to a 5v voltmeter through an amplifier whose amplification gactor is 100. of of 1 mv appears across terminals of IVDT, when the core moves through distance of terminals of IVDT, when the core moves through distance of the calculate sensitivity of IVDT and that of whole set up. The mu scale has 100 divisions. The scale can be read to 1/2 of the mu scale has 100 divisions. read to 1/5 of a division calculate result in ins resolution of instrument in mm. Sensitivity of LVDT = displacement 0.4mm = 2.5mv/mm censitivity of setup = amplification factor x sensitivity of LVDI - 250 mV/mm we have, 1 div = 5 v = 50mV 1 div = 5 v = 50mV 1 smallest value that can be measure (5 div) = 50mV = 10mV. smallest value that can be read : Resolution = sensitivity of set up 00 = 10mV = 001 mm

