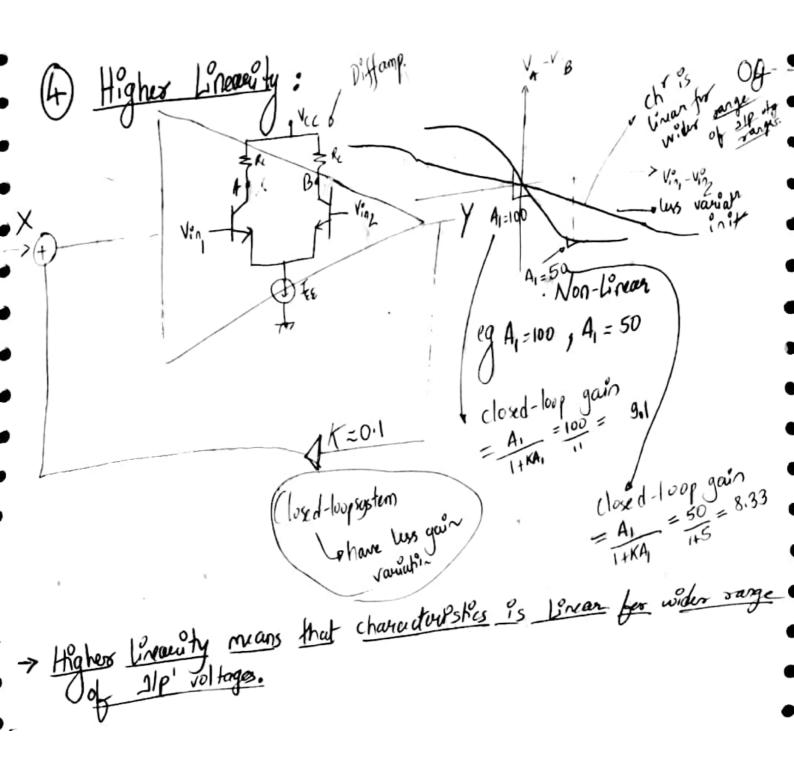
## AEC 33.2 21/4/22

Properties of Negative Feedback:  $\frac{Y}{X} = \frac{A_1}{1+KA_1} \approx \frac{1}{K} \quad \text{if } KA_1 >> 1$ Fain Description  $\Rightarrow \frac{Y}{X} \quad \text{is servitive to temperature}$ Howards supply, etc. than  $A_1 \stackrel{X}{\sim} S$ 

Bondwidth Extension: Greater Bw for closed 05
-loop system

I and output impedances

Wighor Linearity 19
-byllo 19
-byllo 1/p



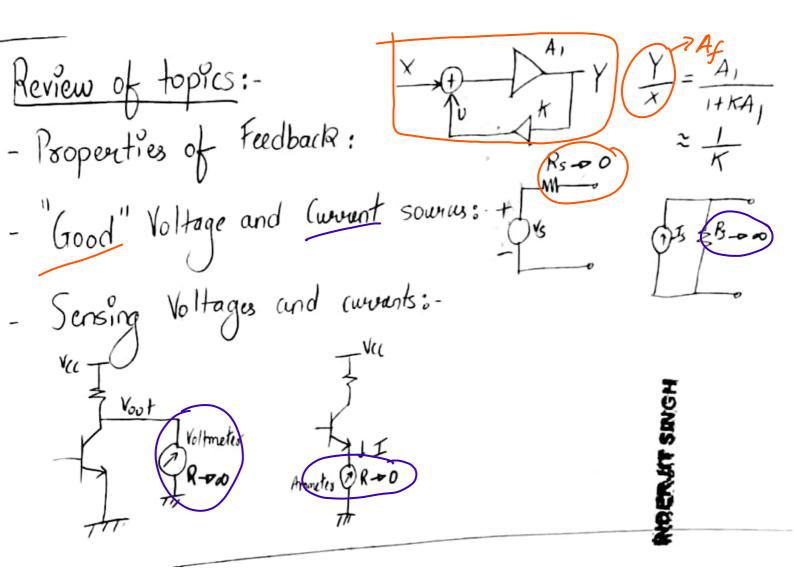
. A Few Quick Notes a) Ideal Vs Real sounces Real (Internal yesistery) Ideal for a good voltage sowne, Rs is small Voltage ( werest source measure a voltage or a curvent Voltage without disturbing on bading the court (w/o changing the gain that is the ckt) b) How. ~ That is possible to only if the impedance of the voltmeter is That we connected something bet A&B To, an ideal voltmeter has an infinite impedance.

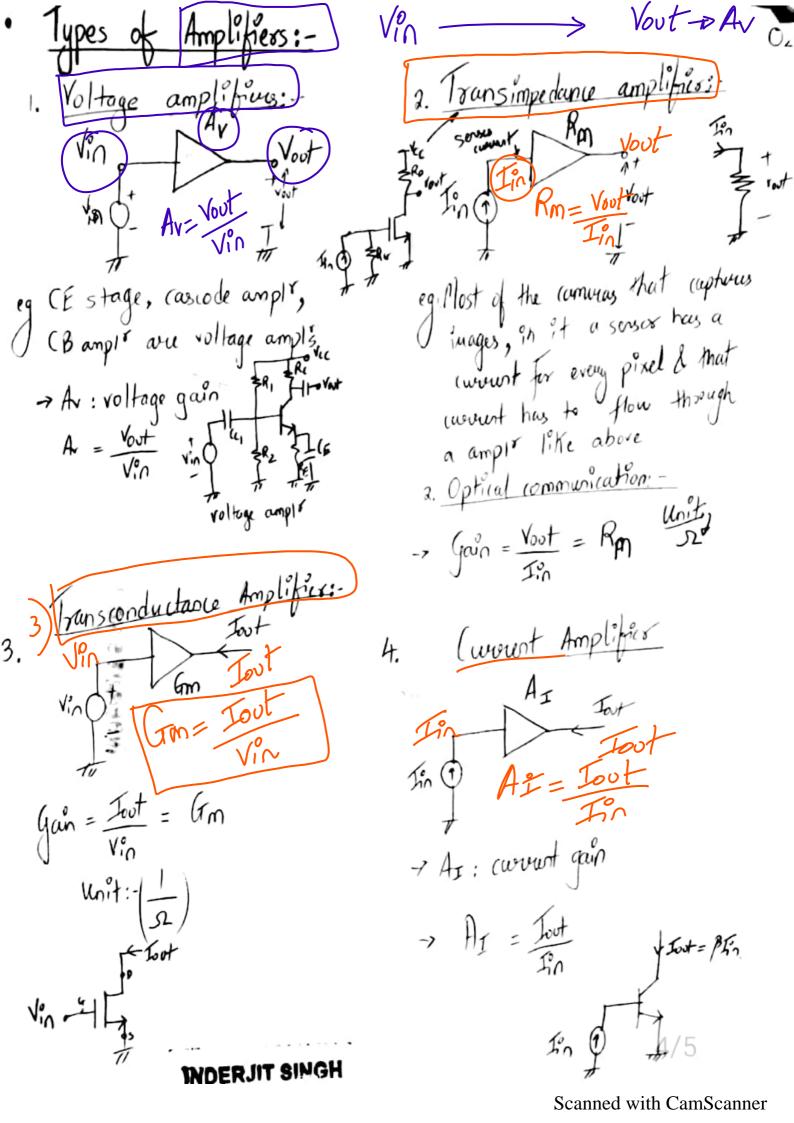
So any device or cht that is suppose to measure

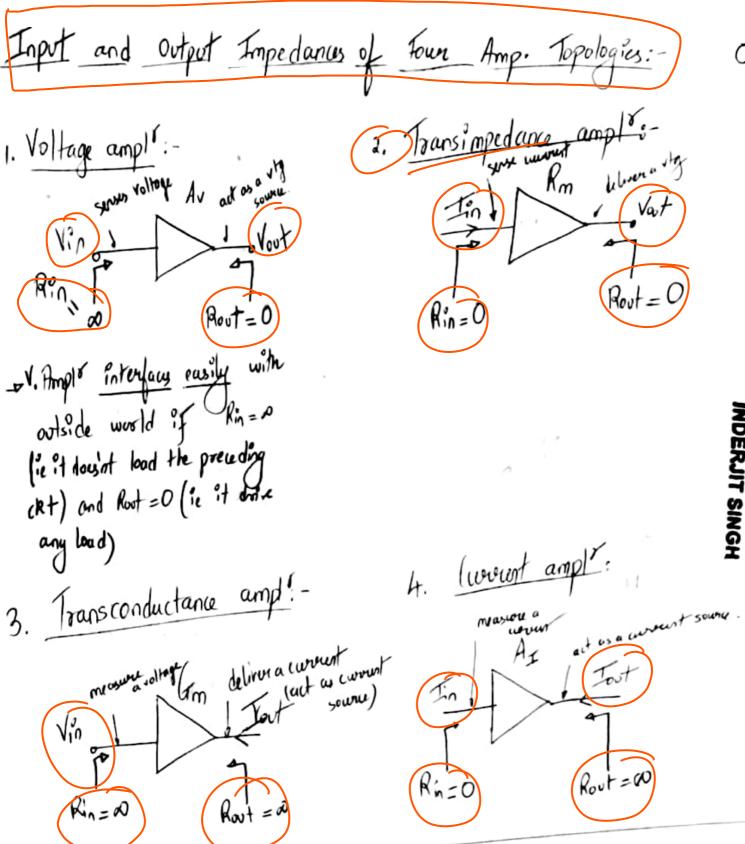
voltage has to have an a ilp impedance.

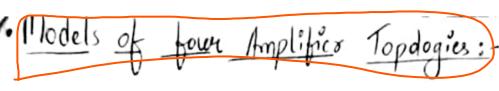
must

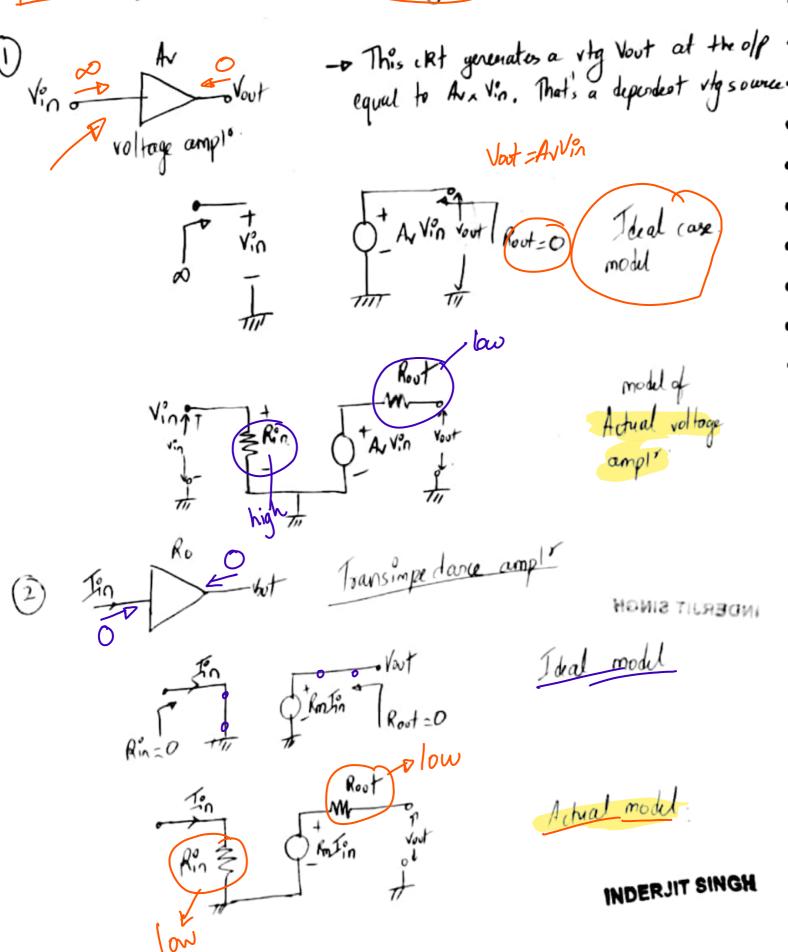
Any device or cht wants to measure current or sense a current must have low impedance.











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