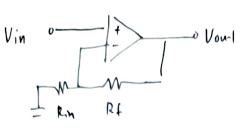
## Activity 1

1.



voltage at +2 - the 1 ame and draws no current

$$V_{in} = \frac{R_{in}}{R_{in} + R_{i}} V_{out}$$

$$\frac{V_{out}}{V_{in}} = \frac{R_{in} + R_{t}}{R_{in}}$$

$$= 1 + \frac{R_{t}}{R_{in}}$$

	Rf	Rin	Gain = Wout	Vout (Vp) measured	Vont (VAVG) mewaret
•	1007	100 D	2	336mV	158 m V
	300 T	102	4	630 mV	28 6 mV
,	1KJ	1002	11	1,742 V	704mV
	2k52	1000	21	3.0 8 V	1,245V
	10K SZ	100 2	101	3,941V	2.238V
		ļ	1		

Vin = 200mV

- 7. The output notage measured is dightly but than what is expected from your but follows the magnitude of amplification
- & 'Fe' the output without is in phare with Vin (sinux lal)
- q. The output is saturated to be about IV below Vcc which is 50

Achuty 2

Rin

Vin o Would

witugo\_ ut ts - try to flay the same

$$\frac{Vin^{-0}}{Rin} = \frac{0 - Vout}{Rf}$$

			$V_{\text{out}} = -\frac{R_{\text{in}}}{R_{\text{in}}} V_{\text{in}}$		
	Rf	Rin	$Gain = \frac{Voul}{Vin}$	Meanings Nont (Alb)	Yout (VALG)
	100 V	100 2	-1	156mV	33m V
	300 D	1001	-3	447mv	222 mV
5	1K-2	1000	-10	1, 408 V	709mV
	2k2	10002	-20	2.471 V	1,279V
	1012	12001	-100	4, 674 V	-3,478 V

Vin = 160mV

- 6. Yes, the output whage is amplified and revened
- 7. The output witage is inverted from input voltage. phane differency