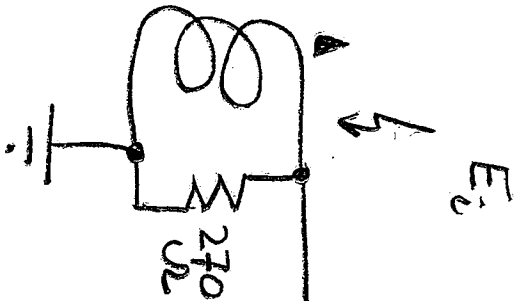


Function Generator



$V_i$   
1:1

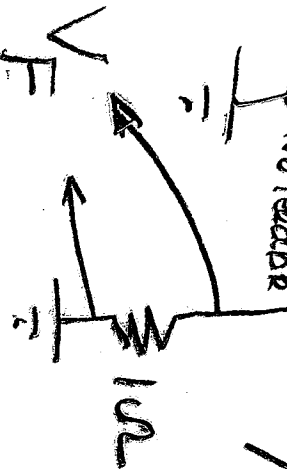


$g_m \sim 5A_o/E_i$

Feedback

8  $\Omega$  Full Range

TEACHENICS Power Toroid  
25 VA, VP T230-110  
1:1

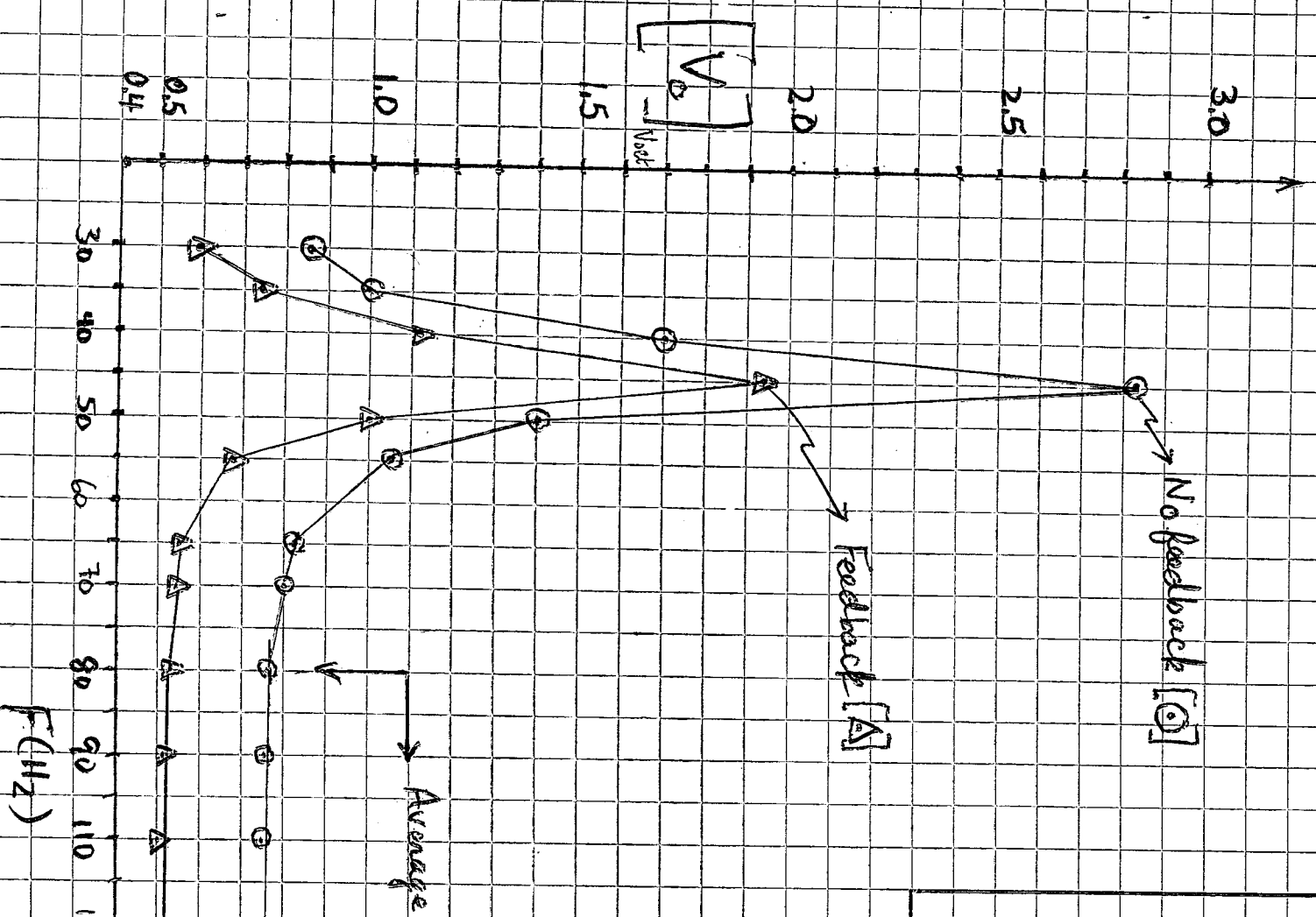


TEACHENICS Feedback 2

Antenna

11/13/12





No Feedback

- V<sub>e</sub> = 18 mV
- V<sub>F</sub> = 89 mV
- E<sub>i</sub> = 18 mV

Feedback

- V<sub>e</sub> = 72 mV
- V<sub>F</sub> = 60 mV
- E<sub>i</sub> = 12 mV

$$g_m = \frac{V_F}{E_i} \approx 5 A/V$$

F (Hz)

Temp with Feedback 2  
Antennal  
11/13/12

$$\left. \begin{aligned} 0.759 \pm 0.008 &= A \\ 0.516 \pm 0.006 &= B \end{aligned} \right\} \text{Gain } A_{CL} = \frac{A-B}{A} = 0.32$$