Yunus Enre ERYILMAZ YE.

1-) Atope of amplifier that its output voltage changes according to input current.

2-) Current amplifier

4-) $V_{G} = 10V. \frac{380}{1000} = 3V$ $V_{0} = 10 - 4 = 6V$ $V_{G} = \frac{2}{1000} (V_{G} - V_{G})^{2} (1 + \frac{V_{AS}}{V_{A}})$ $V_{G} = \frac{2}{1000} (V_{G} - V_{G})^{2} (1 + \frac{V_{AS}}{V_{A}})$ $V_{G} = \frac{2}{1000} (V_{G} - V_{G})^{2} (1 + \frac{V_{G}}{V_{A}})$ $V_{G} = \frac{2}{1000} (V_{G} - V_{G})^{2} (1 + \frac{V_{G}}{V_{A}})$ $V_{G} = \frac{2}{1000} (V_{G} - V_{G})^{2} (1 + \frac{V_{G}}{V_{A}})$ $V_{G} = \frac{2}{1000} (V_{G} - V_{G})^{2} (V_$

 $1 = (2 - V_S)^2 \cdot \left(\frac{86 - V_S}{80}\right) = \frac{1344 - 344V_S + 86V_S^2 - (4V_S + V_S^3 - 4V_S^2)}{80}$

 $0 = V_s^3 + 90V_s^2 - 349V_s + 264$ $V_{S1} = 3.25 \quad V_{S2} = -94, 11 \quad V_{S3} = 0.86V$ $V_S = 0.86V$