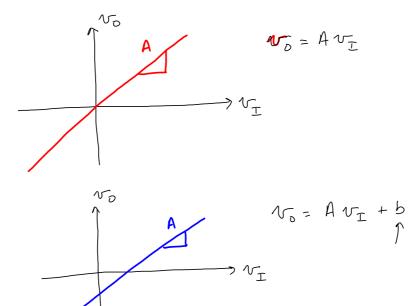
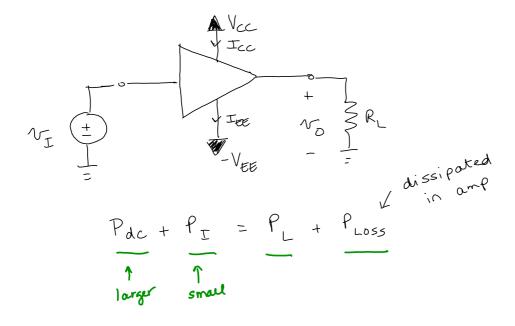


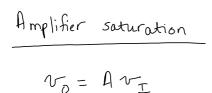
Voltage transfer characteristic: (VTC)



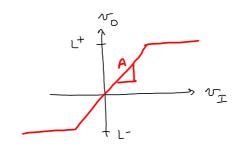
Amplifier design goals => linear amplification no distortion

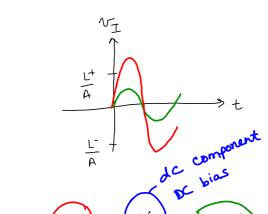


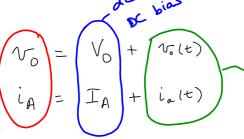
amplifier efficiency: $l = \frac{P_L}{P_{dc}} \times 100 = l$ percent efficiency

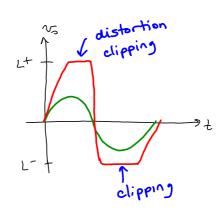


$$\frac{L}{A} \leq v_{I} \leq \frac{L^{+}}{A}$$









AC component small-signal component

large signal resistance Ri, Ro, RI, Ro Small signal resistance TIT, To, Ti