Swing limits $\begin{cases} V_i \in [1.5V, 9.5V] \\ V_o \in [0.5V, 9.5V] \end{cases}$ * Voltage Follower: Vicon = Volorius

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Vont = Ad xV; & Vin

1+Ad

Vin | Vin $1.5 \le V_{ian} + V_{in} \le 4.5$ $\int 0.5 \le V_{ian} + V_{in} \le 9.5$ $(V_{obs} + V_{o})$ => Vian = 3V & Vin = 15V (Assuming sine ware input)

Moramum Suring

* Inverting amplifier: Vibin = Vobias Vibras = Voloras
Vontes -10 Vin

1.5 \le Vibras + Vin \le 9.5

Vibras + Vin \le 9.5

Vibras + Vin \le 9.5 0.5 & Vobrus + Vout 9.5 0.5 - Varibres & Vont 9.5 - Vibres $\Rightarrow (4.5 - Vibrs) \leq Vin \leq (0.5 - Vibrs)$ => Vilous = 2.5 V & Vin = 0.2 V (for some input)

(say with a gam of -10)