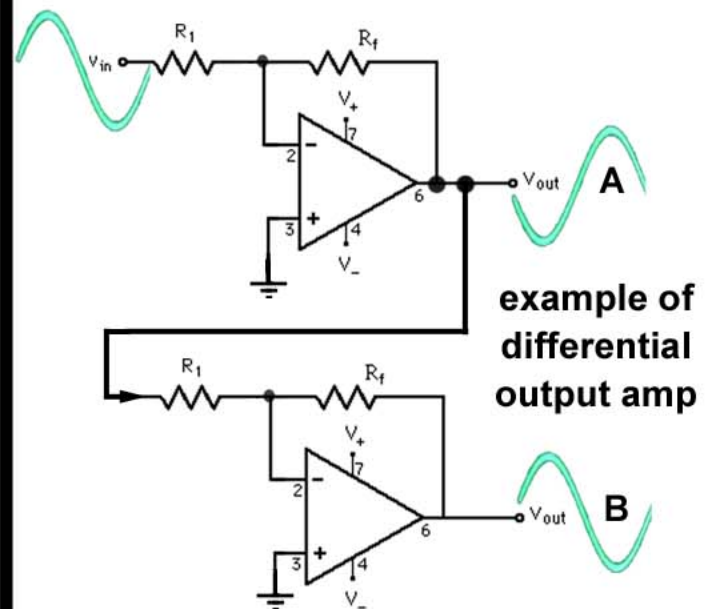
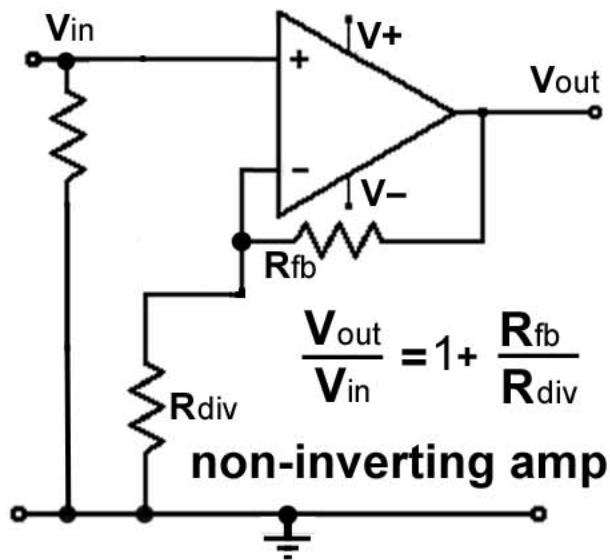
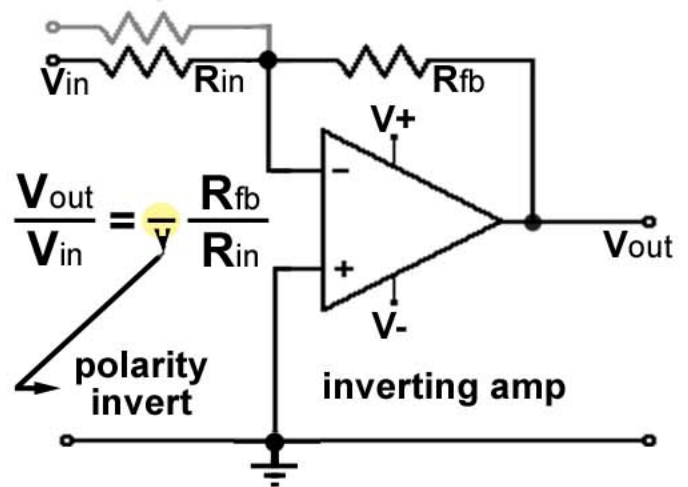
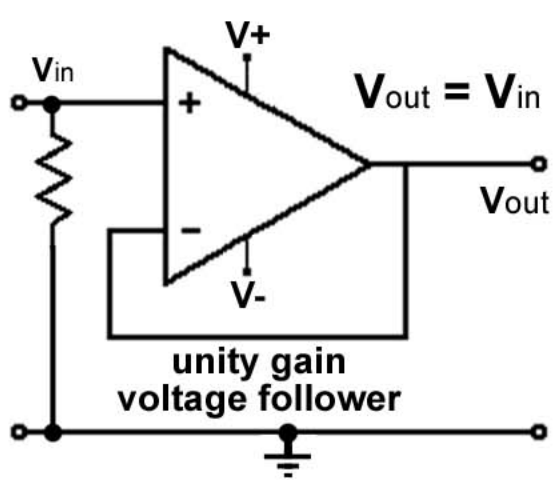




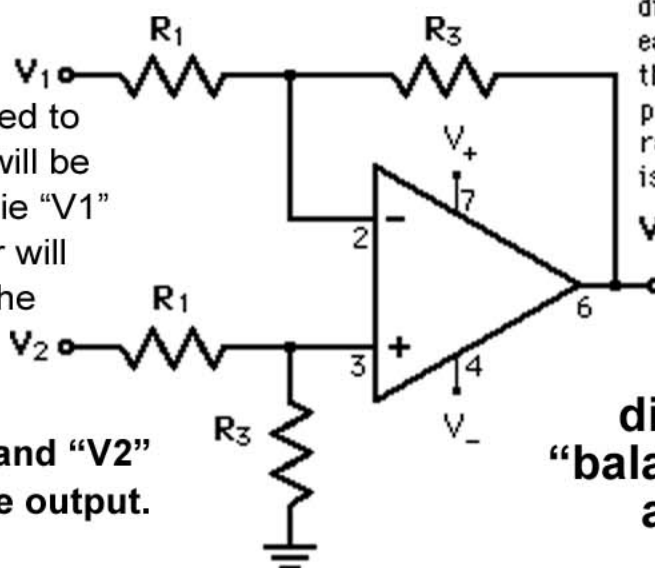
Assuming these are unity gain amps, what must V_{in} be so that the combined output of "A" and "B" is +4dBu?

NOTE:

If only one input is used, the opposite input should be connected to ground. Input V_2 only and V_{out} will be 6dB less assuming $R_1=R_3$. But tie " V_1 " to ground and that voltage divider will cut the feedback in half, tricking the opamp into raising the gain 6dB.

NOTE-2

Input identical signals to " V_1 " and " V_2 " and NO signal will appear at the output. WHY?



If the resistors forming the voltage divider for V_2 are each multiplied by the same number, preserving their ratio, the amplification is unchanged.