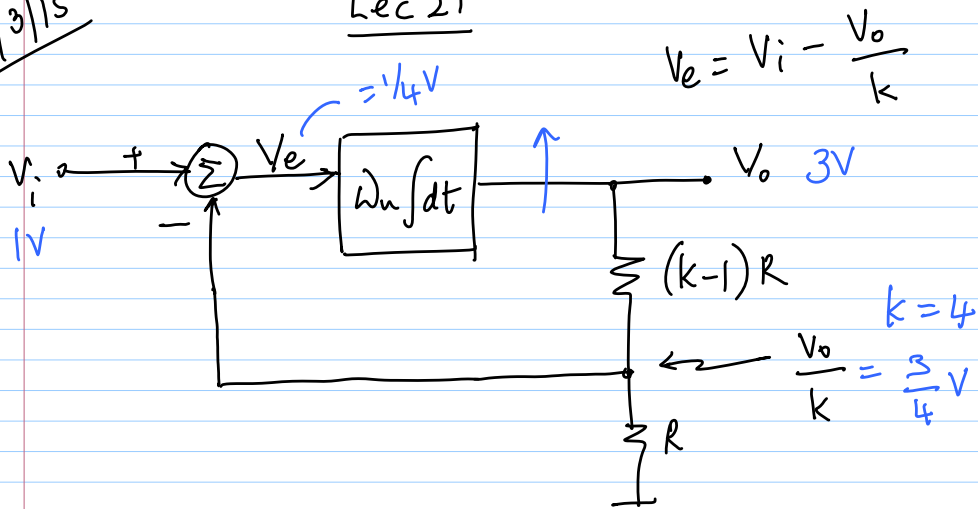


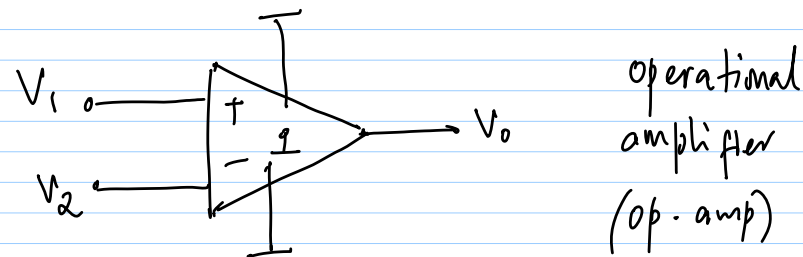
3/3/15

Lec 21

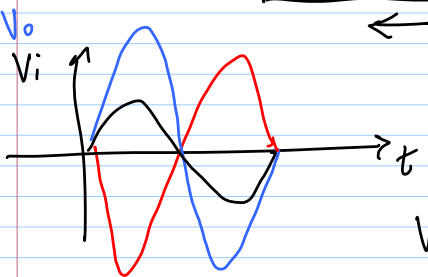
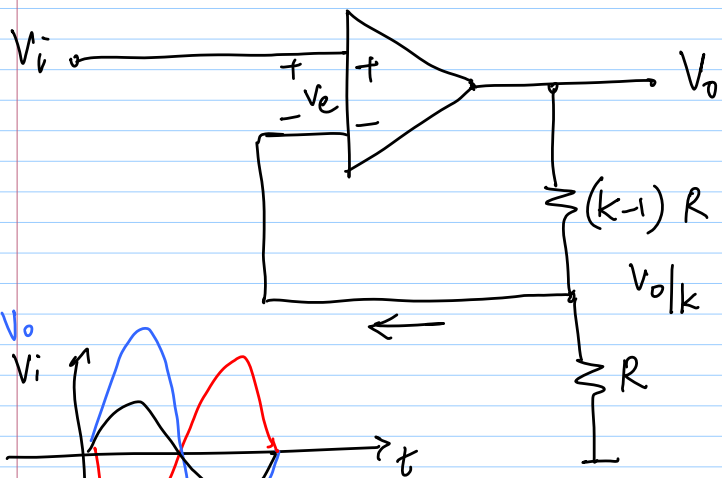


Compare V_o & $kV_i \leftrightarrow$ compare $\frac{V_o}{k}$ & V_i

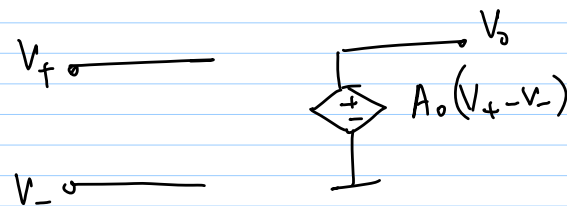
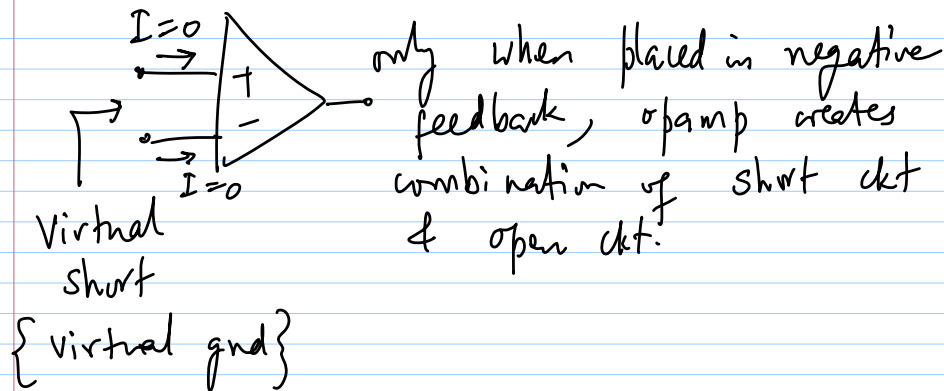
* V_o doesn't change only when $V_e = 0$
 * In steady state, $V_o = 4V$

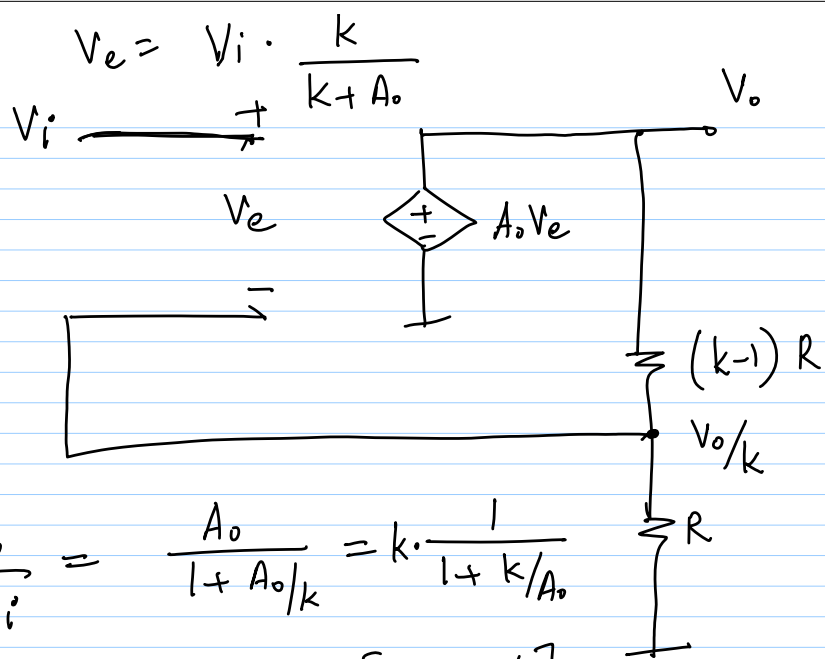


$V_o = A_o (V_1 - V_2)$; A_o is very large
 $A_o \rightarrow \infty$
 $V_e = V_1 - V_2$ or $V_+ - V_-$



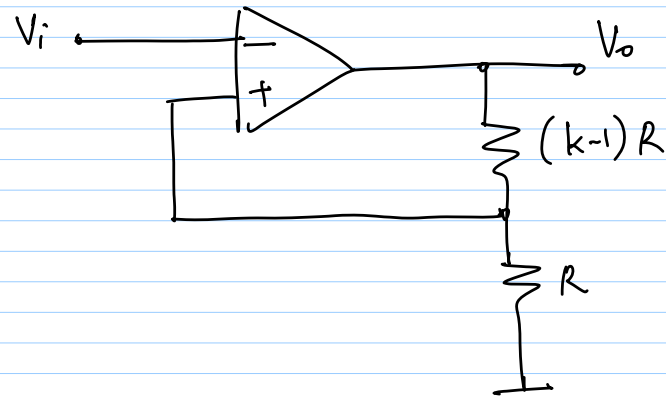
$V_e \rightarrow 0$ because $A_o \rightarrow \infty$





$$\frac{V_o}{V_i} = \frac{A_o}{1 + A_o/k} = k \cdot \frac{1}{1 + k/A_o}$$

$$V_o = A_o V_e = A_o \left[V_i - \frac{V_o}{k} \right]$$



+ve
 f-b.
 → do not use
 VCVS model