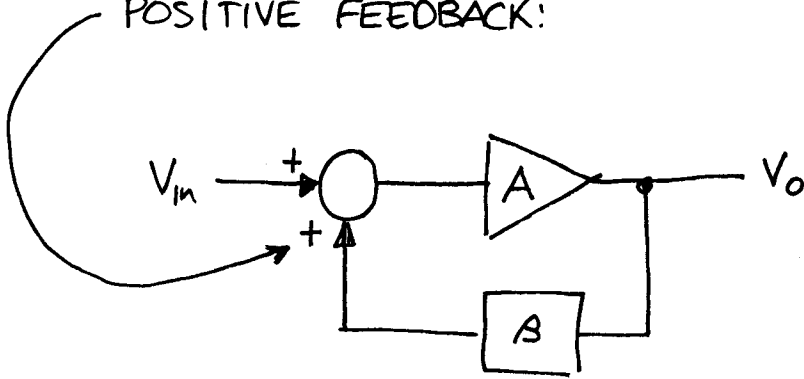


4/28/05 ①

POSITIVE FEEDBACK:



$$V_o = A(V_{in} + BV_o)$$

$$V_o = AV_{in} + ABV_o$$

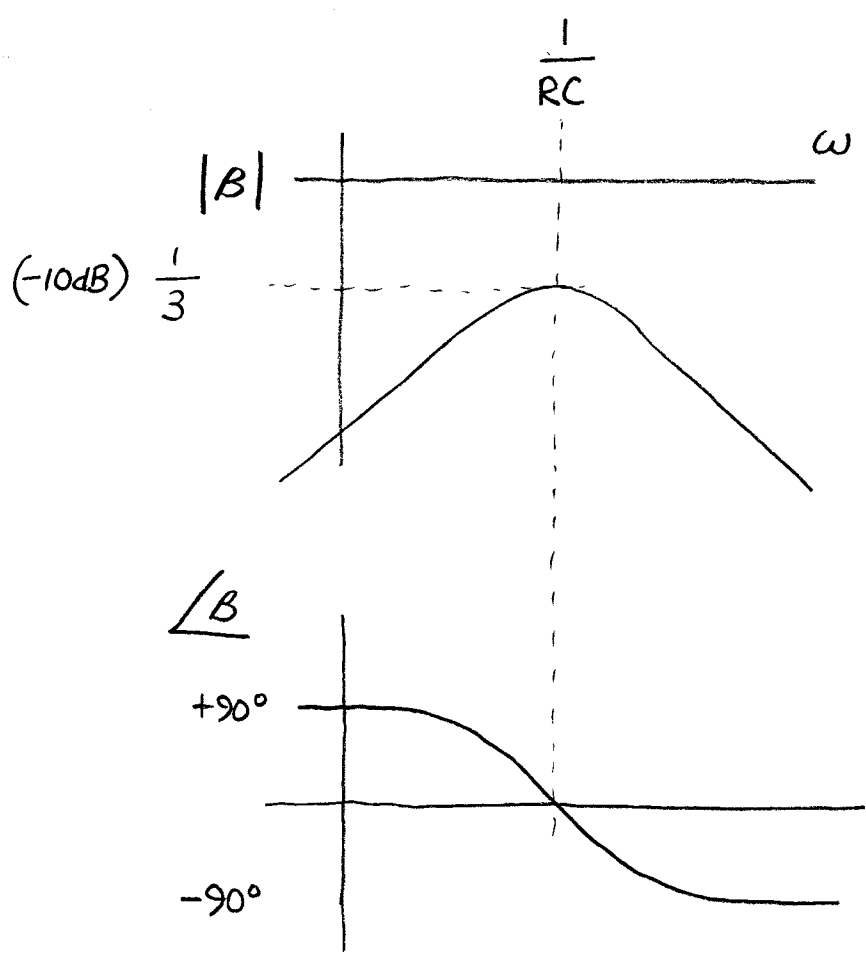
$$V_o(1 - AB) = AV_{in}$$

$$\frac{V_o}{V_{in}} = \frac{A}{1 - AB} \quad \left. \vphantom{\frac{V_o}{V_{in}}} \right\} \text{WHAT MAKES DENOMINATOR ZERO?}$$

$$1 - AB = 0 \Rightarrow AB = 1$$

$ AB = 1$ $\angle AB = 0$

4/28/05



WIEN BRIDGE β NETWORK