Homework

$$I \cdot A = \frac{V_0}{V^+ - V^-}$$

$$V^+ = \frac{1}{1+1000} V_1^- = \frac{1}{1001} V$$

$$A = \frac{4}{1001} = 4004 \% #$$

$$\frac{0-v_{\lambda}}{20K} = \frac{v_0-0}{100K} \Rightarrow \frac{v_0}{v_{\lambda}} = -5 \frac{v_0}{v_{\phi}}$$

$$\lambda = \frac{0 - V\lambda}{20K} = \frac{V_0 - 0}{100K} \Rightarrow \frac{V_0}{V\lambda} = -5 \frac{V}{V}$$

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$$Rm = \frac{V\lambda}{\lambda} = 0 \mu$$

$$Rm = \frac{Vo}{\lambda} = -\frac{Rf}{(I+\frac{1}{A})} *$$

$$\frac{V_0}{V_1} = \frac{10X + R + (1-X)/0}{10X + R} = 11 \text{ (Max)}$$

6.(a)
$$I_1 = \frac{0-1}{10k} = 10^{-4} A_{R}$$
 $I_2 = I_1 = 10^{-4} A_{R}$
 $V_X = -I_2 \cdot 10 = -1V_{R}$
 $I_3 = \frac{1-0}{100} = 10^{-2} A_{R}$
 $I_4 = 10^{-2} + 10^{-4} = 0.0101A_{R}$

(b) $V_X - V_0 = R_0 \cdot L$
 $V_X - V_0 = R_0 \cdot L$
 $V_0 = V_X - R_0 \cdot L$

$$R_2 = \frac{R}{2} + \frac{R}{2} = R$$

$$R_3 = \frac{R}{2} + \frac{R}{2} = R$$

$$R4 = \frac{R}{2} + \frac{R}{2} = R$$

$$V_2 = -I_x \cdot \frac{R}{2} + V_i$$