

$$N \left(\frac{w}{N} + w \right)$$

$$\left(\frac{N+1}{2} \right) (2\lambda + 2 \frac{w}{N}) = (N+1)\lambda + (N+1) \frac{w}{N}$$

$$= (N+1)\lambda + w + \left(\frac{w}{N} \right)$$

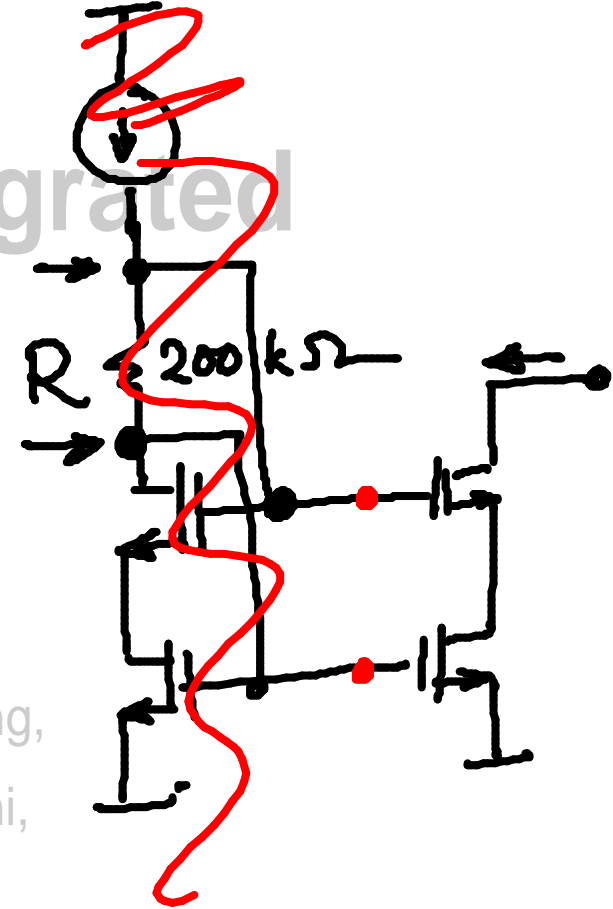
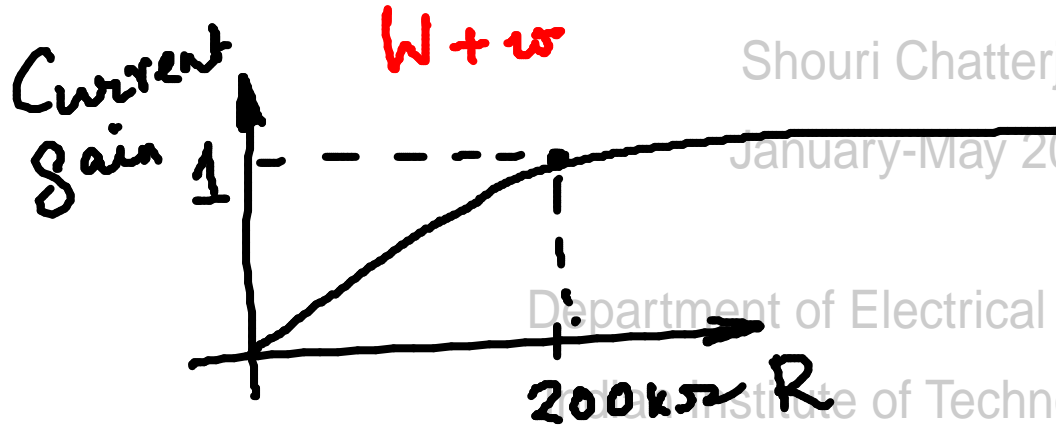
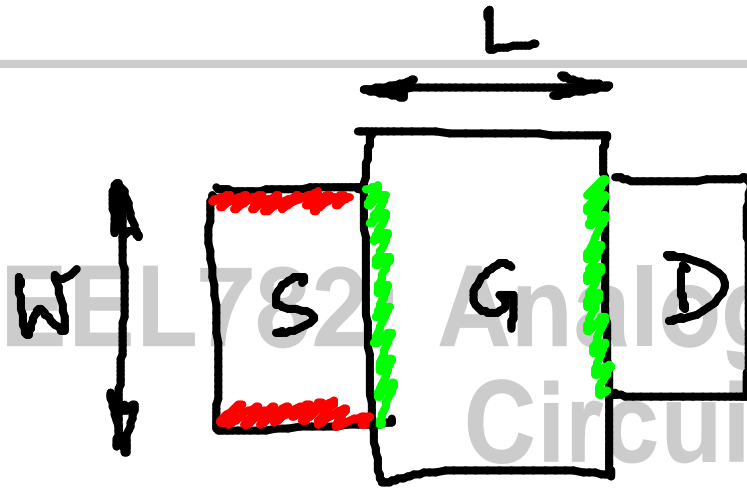
$$2\lambda + 2w$$



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$$N \cdot \frac{w}{N} \cdot 1 = w \cdot 1$$

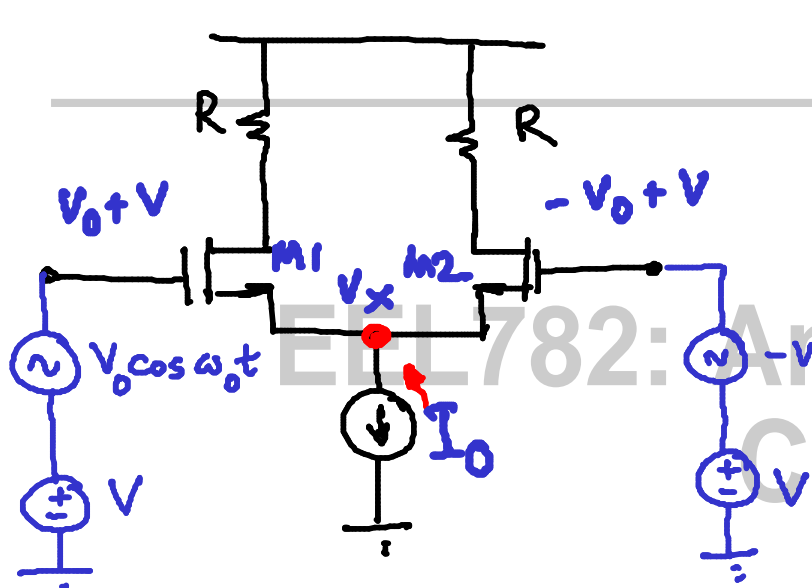




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$$I = k \cdot V_{ov}^2$$

$$I_1 = k (V_0 + V - V_x - V_T)^2$$

$$I_2 = k (-V_0 + V - V_x - V_T)^2$$

$$I_1 + I_2 = I_0$$

Voltage

$$\frac{I_0}{2} = k (V - V_{x0} - V_T)^2$$

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$$V_{GS} = V_0 + V_T + \sqrt{I_0/2k - V_0^2}$$

$$V_{OV} = V_0 + \sqrt{I_0/2k - V_0^2}$$

$$(V_0 + V - V_x - V_T)^2 + (-V_0 + V - V_x - V_T)^2 = I_0/k$$

$$(V - V_x - V_T) = \sqrt{I_0/2k - V_0^2}$$

$$V_x = (V - V_T) - \sqrt{I_0/2k - V_0^2}$$

