

- HW #2 is due today 11:59pm
- Midterm-1 Wed (04/29)

- Multiple choice
- True / False
- Fill in values → accuracy of  $\pm 5\%$
- Midterm Max - 30pts  
 Questions will be of 1pt  
 2pt  
 3pt
- Keep your worksheet / scratch sheet to show the progress.
- Upto lecture 12 will be in the Midterm-1 (including)

$$\text{Power loss (dB)} = -20 \log(e^{-\alpha}) \leftarrow$$

$$= 20 \alpha \log(e)$$

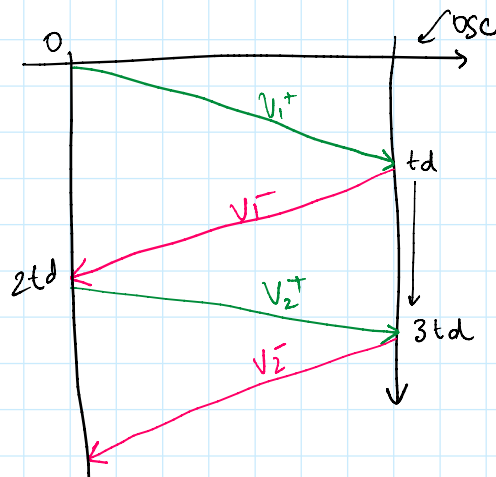
$$\propto 20 \times 0.434$$

$$\text{Power loss (dB)} = 8.68 \alpha$$

$$\alpha = 1 \rightarrow 8.68 \text{ dB}$$

$$\text{ex: Power loss } 20 \text{ dB} = 8.68 \alpha$$

$$\alpha = \frac{20}{8.68} = 2.304 \text{ nepers/m}$$



$$V_1^+ + V_1^- = 60 \text{ V}$$

$$V_1^+ + V_1^- + V_2^+ + V_2^- = 30 \text{ V}$$

$$\Gamma_L = 1$$

$$V_1^- = \Gamma_L V_1^+$$

$$\Gamma_G = 1$$

$$V_1^+ = \frac{V_s \cdot Z_0}{Z_0 + R_S}$$

