

# Log<sub>10</sub> Review

- $\log_{10}(1) = 0$
- $\log_{10}(10) = 1$
- $\log_{10}(100) = 2$
- $\log_{10}(1,000) = 3$
- $\log_{10}(10,000,000,000) = 10$

$$\beta = (10 \text{ dB}) \log_{10} (I / I_0)$$

$$\beta_2 - \beta_1 = (10 \text{ dB}) \log_{10}(I_2/I_1)$$

- $\log(ab) = \log(a) + \log(b)$
- $\log_{10}(100) = \log_{10}(10) + \log_{10}(10) = 2$