1) Latency = propagation time + transmission time + quing time + processing delay.

2) propagation time = $\frac{\text{Distance}}{\text{Propagation speed}}$

3) transmission time = $\frac{\text{Message size}}{\text{bandwidth.}}$

4) period, $T = 1/f$

5) offset to degree ⊗ এর ক্ষেত্রে 360° দিয়ে ভাগ
radian এর ক্ষেত্রে $\frac{2\pi}{360}$ দিয়ে ভাগ

6) $\lambda = \frac{c}{\lambda}$

+ বেশি Gained
- n reduce.

7) Bandwidth $B = f_h - f_l$

8) Attenuation, $dB = 10 \log_{10} \frac{P_2}{P_1}$

9) $dBm = 10 \log_{10} Pm$.

10) Capacity = bandwidth $\times \log_2 (1+SNR)$ → Shannon.

11) Bitrate = 2x bandwidth $\times \log_2 L$ → Nyquist.

12) $SNR = \frac{\text{average signal power}}{\text{average noise power}}$.

13) $SNR_{dB} = 10 \log_{10} SNR$.

14) Relation between signal rate and data rate.

$$S = \frac{N}{rC}.$$